D-7000 HPLC System Manager

Installation Manual

Read and Keep This Manual

- Read carefully and understand the safety instructions in this manual before you start using the product.

- Keep this manual at hand for reference.

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D-7000 HPLC System Manager

Installation Manual

Version 5.0

Open README File

Please open the README file included in the floppy disk accompanying the product and read it carefully before you start using the D-7000 HPLC System Manager software and the Utility software.

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Preface

This document accompanies the following manuals for your Hitachi D-7000 High-Performance Liquid Chromatography System:

- D-7000 HPLC System Manager User Manual
  (P/N 810-9442)

- L-7455 Diode Array Detector Installation and Maintenance Manual
  (P/N 810-9371)

- D-7000/D-6000 Interface Module Installation Manual
  (P/N 810-9471)

- D-7000 HPLC System Manager Getting Started
  (P/N 810-9437)

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About This Manual

This installation manual serves the following purposes:

- To guide you through the basics of installation.
- To guide you through setting up the HSM program to suit your needs.

The instructional content of this manual is based on the following assumptions:

- You understand the fundamentals of liquid chromatography.
- You are familiar with the operation of a computer that uses the Microsoft Windows 2000 program.

If you require further information on Windows 2000, refer to the Microsoft documentation.

⚠ SAFETY SUMMARY

⚠General Safety Guidelines

Before operating the product, read the following instructions carefully:

- Follow all the operating procedures provided in this manual.

- Pay special attention to and follow all the hazard warnings on the product and in the manual. Failure to do so can cause injury to yourself or damage to the product.

- The hazard warning which appear on the warning labels on the product or in the manual have one of the following alert headings consisting of an alert symbol and a signal word, **DANGER**, **WARNING**, or **CAUTION**.

⚠ **DANGER:** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠**WARNING:** indicates a potentially hazardous situation which, if not avoided, can result in death or serious injury.

⚠**CAUTION:** indicates a hazardous situation which, if not avoided, will or can result in minor moderate injury, or serious dame of product.

⚠: The alert symbol shown left precedes every signal word for hazard warnings, and appears in safety related descriptions in the manual.

NOTE: The signal word **NOTE** is used to present warnings which are not directly related to personal injury hazards.

- Do not perform any operation or action in any way other than as provided in this manual. When in doubt, call the designated field engineer.

⚠ SAFETY SUMMARY (Continued)

⚠Caution Statements

⚠ CAUTION
Do not switch power off on computer when you want to quit Windows 2000 or you could lose data. Instead, choose one of the following methods: • Open **Start** menu and select **Shutdown**.   • When the message   *It is now safe to turn off you computer.*   is displayed on your screen, turn off your computer.

(Section 1, page 1)

⚠ SAFETY SUMMARY (Continued)

⚠ CAUTION

If any program/data is damaged suddenly or an unexpected operation/screen is encountered, the personal computer may be infected by a computer virus. Computer viruses are malicious programs that sneak into the personal computer to cause misbehavior or damage to data. And, a program designed to offer protection against computer viruses is called a vaccine program.

Possible causes of virus infection are:

- Downloading a virus-laden program through communication.
- Using a floppy disk or other storage medium infected by a virus.

Note also that once the personal computer is infected by virus, it may spread to other computers via communication or storage medium. Never used a program or storage medium that is suspected of containing a virus.

If there is a possibility of virus infection, check for a virus using a vaccine program. Note, however, that some kinds of vaccine programs cannot eradicate particular viruses. In such a case, be sure to make a backup of the hard disk.

The user is requested to prepare a vaccine program and carry out virus removal.

Table of Contents

1 HSM Installation and Setup

1.1 Introduction

This chapter provides the following information about the Single-System and Multi-System versions of the D-7000 HPLC System Manager:

- Section 1.2, HSM Package Contents
- Section 1.3, HPLC System Hardware Interface
- Section 1.4, GPIB Board Configuration
- Section 1.5, HSM Program Installation
- Section 1.7, Configuring the HSM Program

It is beyond the scope of this manual to explain the basics of high-performance liquid chromatography (HPLC). It is assumed that you are already familiar with HPLC system components such as detectors, pumps, autosamplers, gradient controllers, interface modules, and personal computers. For further generic information on HPLC, refer to numerous excellent textbooks and reference books that exist on the subject. Should you require specific information on any particular component of your HPLC system, refer to Hitachi technical support.

1.2 HSM Package Contents

The package in which you received your D-7000 HSM software should contain the following items:

- HSM Program Installation CD-ROM
- Installation, Getting Started, and User Manuals for the D-7000 HSM
- Hitachi Software License Agreement

1.3 HPLC System Hardware Interface

The HPLC System interface to the HSM is via the GPIB bus. Illustrations showing Single-System and Multi-System interface configurations follow:

Single-System Interface
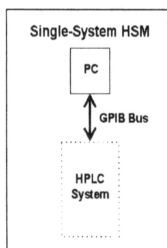
Multi-System Interface
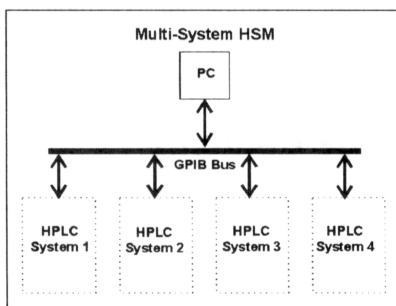
Typically, the HPLC System hardware interface to the D-7000 HSM program is accomplished with one of the following:

- **D-7000 Interface Module (IFM)**

- **D-6000 Interface Module (IFM)**

- **L-7450 Diode-Array Detector (DAD)**

- **L-7455 Diode-Array Detector (DAD)**

- **L-4500 Diode-Array Detector (DAD)**

- **D-7000 IFM with L-7450 (DAD)**

- **D-6000 IFM with L-4500 (DAD)**

1.3.1 D-7000 Interface Module (IFM)

The following illustration shows a typical HPLC system based on L-7000 series components and the D-7000 IFM. The HPLC system, as shown on the next page, includes the following components:

- D-7000 IFM
- L-7100 Pump
- L-7200 Autosampler
- L-7300 Column Oven
- L-7400 UV Detector

The D-7000 IFM links to the HPLC instruments via D-Line cabling (P/N 810-7557) or CE Mark compatible F-D-Line (P/N 810-7516). The IFM links to the PC computer via an IEEE-488 (GPIB) interface bus.
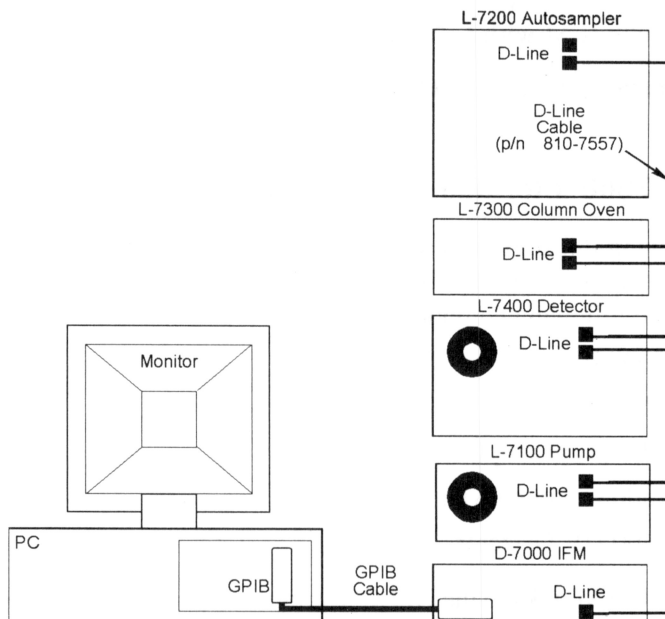
The RJ-45, shielded D-Line cables connect the L-7000 series components, in series, to the IFM. The IEEE-488 GPIB (General Purpose Interface Bus) cable is connected between a National Instruments GPIB communications board in the PC and a communications board in the IFM.

The D-7000 IFM can process two channels of detector-generated data simultaneously. Both channels can be digital or one of the two can be analog. If both channels are digital, they use D-Line cables. If one of the channels is analog, however, it is connected to the Analog Signal (A/D) terminal on the back panel of the D-7000 IFM using an appropriate analog signal cable.

1.3.2 D-6000 Interface Module (IFM)

A typical HPLC system based on L-6000 components might contain the following components:

- D-6000 IFM
- L-6200 Intelligent Pump
- AS-2000 Autosampler
- L-4250 UV-Vis Detector
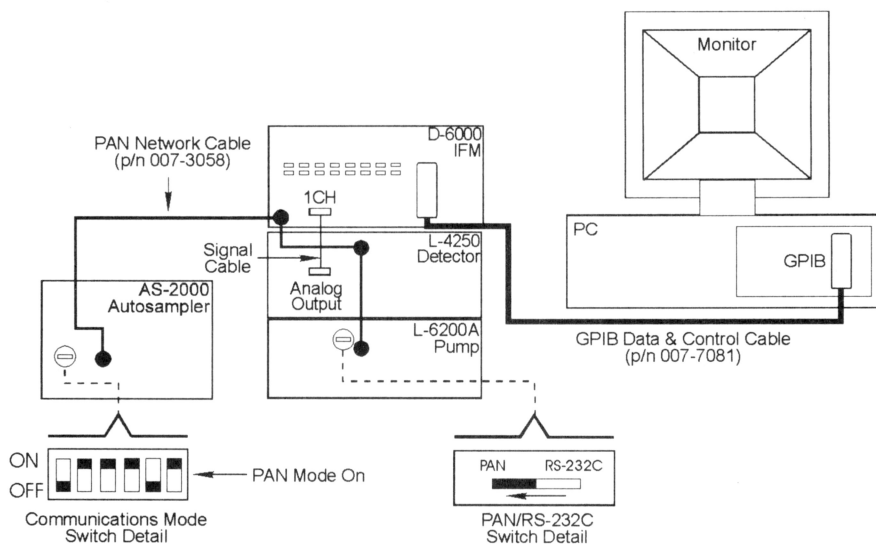
The link from the IFM to the HPLC components is via the Private Area Network (PAN). Data transfers between the detector and the IFM are accomplished via an appropriate analog signal cable. The link between the PC and the IFM is via the IEEE-488 GPIB (General Purpose Interface Bus) interface bus. The GPIB bus connects a GPIB communications board in the PC to a communications board in the IFM.

Under the control from the D-7000 HSM program, the D-6000 IFM can process up
to two channels of detector-generated analog data simultaneously. The analog
cables must connect to terminals 1CH and 2CH at the rear panel of the D-6000 IFM.

1.3.3 L-7450/L-7455 Diode-Array Detector (DAD)

A typical HPLC system with the L-7450 or L-7455 DAD, as shown below, would
contain the following components:

- L-7450 DAD or L-7455 DAD
- L-6200/6200A Intelligent Pump
- Manual injector with External Start capability
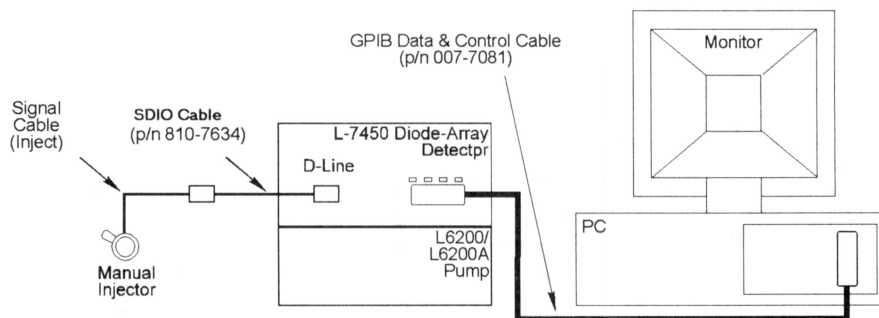
The L-7450/L-7455 DAD connects directly to the PC via a GPIB cable. This
provides for control, from the PC, for the transfer of 3-dimensional data from the
DAD to the PC. The SDIO External Start cable (P/N 810-7634) or CE Mark
compatible FDIO (P/N 810-7514) connects from the manual injector to a D-Line
from the DAD.

1.3.4 L-4500 Diode-Array Detector (DAD)

A typical HPLC system with the L-4500 DAD, as shown below, would contain the following components:

- L-4500 DAD
- L-6200/6200A Intelligent Pump
- Manual injector with External Start capability
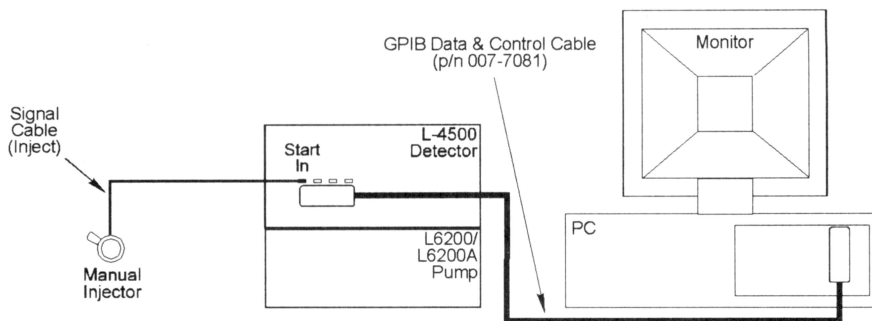
The L-4500 DAD connects directly to the PC via a GPIB cable. This provides for control, from the PC, for the direct transfer of 3-dimensional data from the DAD to the PC. The External Start cable connects from the manual injector to the START IN terminal on the back panel of the L-4500 DAD.

1.3.5 D-7000 IFM with L-7450 DAD

A typical HPLC system employing both the D-7000 IFM and L-7450 DAD, as show below, would consist of the following components:

- D-7000 IFM
- L-7100 Pump
- L-7200 Autosampler
- L-7300 Column Oven
- L-7450 DAD

The RJ-45, shielded D-Line cables connect the L-7000 components, in series, to the IFM. The IEEE-488 GPIB (General Purpose Interface Bus) cable is connected between a National Instruments GPIB communications board in the PC and a communications board in the IFM.
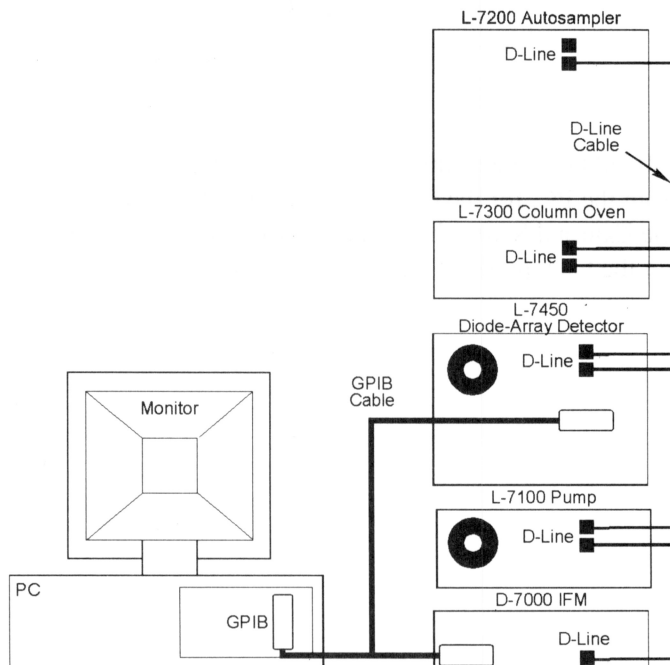
In addition to Channel 1 with L-7450 DAD, the D-7000 IFM can process digital or analog data on Channel 2. For analog data, the connection using an appropriate analog signal cable is to the Analog Signal (A/D) terminal on the back panel of the D-7000 IFM.

1.3.6 D-6000 IFM with L-4500 DAD

A typical HPLC system that employs a D-6000 IFM and an L-4500 DAD, as shown below, would contain these components:

- D-6000 IFM
- L-6200 Intelligent Pump
- AS-2000 Autosampler
- Other manufacturer's detector
- L-4500 Diode-Array Detector
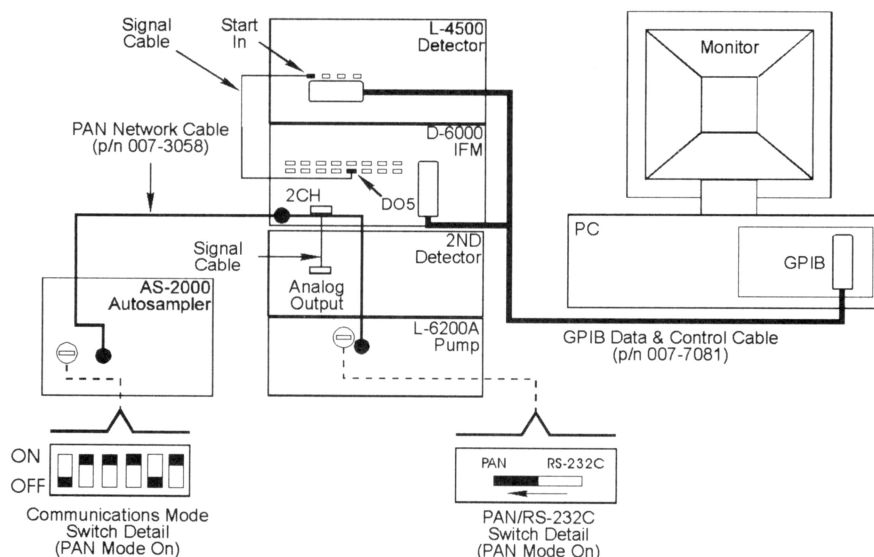
1.4 GPIB Board Configuration

This section applies only to the configuration of the PCI-GPIB interface board manufactured by National Instruments. For installation instructions for the board, refer to procedures in the manufacturer's documentation.

Note: In the USA, the software for the GPIB interface is licensed from National Instruments. The license agreement permits Hitachi to copy and distribute NI-488.2M Software for Windows NT. This agreement does not apply to other countries.

Note: The GPIB board must be installed on a PC computer before performing the following procedure.

To configure the NI-488.2M handler software:

1. Start Windows 2000 and log on using the Administrator account.

2. Click on the **Start** button and, when the **Start** menu opens, click on **Settings**. When the **Settings** menu opens click on **Control Panel**. The **Control Panel** dialog opens.

3. Double-click the **GPIB** icon.
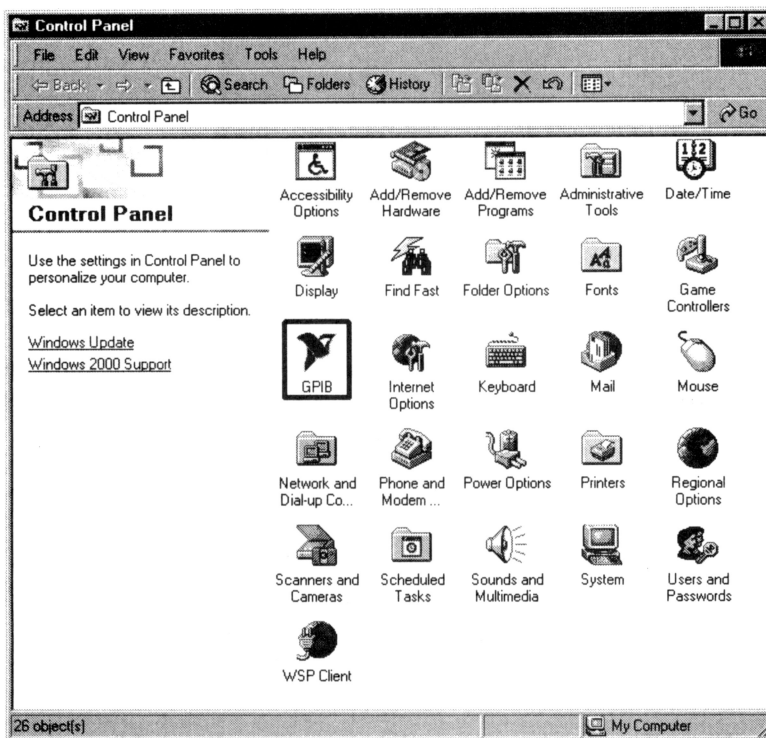
4. When the GPIB Configuration dialog opens, click **Board Type**.
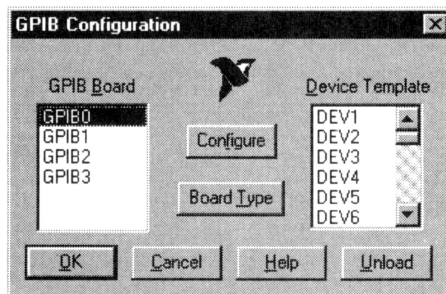
5.   When the Board Type dialog opens, click PCI-GPIB. ##illustration
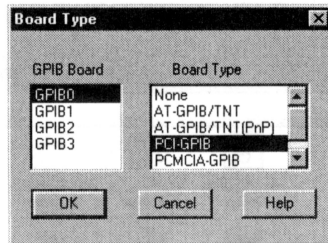
6.   The display returns to the GPIB Configuration dialog. Click **Configure**.

7.   When the **GPIB0 (PCI-GPIB)** dialog opens, note that only the **Hardware Settings** function box is displayed. To expand the dialog, click **Software>>**.
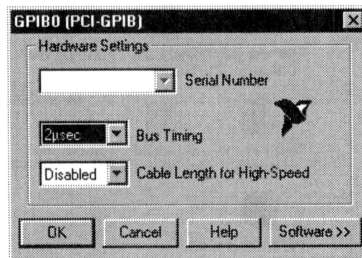
Note: The serial number will be automatically read from the board.

8. When the **GPIB Address**, **Termination**, and **Advanced Items** function boxes appear, configure the settings exactly as shown below.

9. After you have verified the parameter settings, choose **OK**. The **GPIB Configuration** dialog reappears. In the **Device Template** list box, highlight template name, **DEV(n)**, and choose **Configure**.

Hint! If, for example, you are using the D-7000 for System 1 (or for a single-system configuration), highlight **DEV1** and click **OK**.

10. When the **DEV(n) Settings** dialog appears, enter a GPIB device name in the **Name** box and a GPIB address in the **Primary** box. Refer to the following list for device names and addresses.

Name	Primary
D6000-01	16
D7000-01	15
D7000-02	14
D7000-03	13
D7000-04	12
L4500-01	10
L7450-01	9
L7450-02	8
L7455-01	7
L7455-02	6

Hint! If you are using a D-7000 on System 1 (or on a single-system configuration), enter D7000-01 in the Name box, and 15 in the GPIB Address Primary box as shown in the example on the next page. If you are also using a D-7000 for System 2, enter D7000-02 in the Name box and 14 in the GPIB Address Primary box.
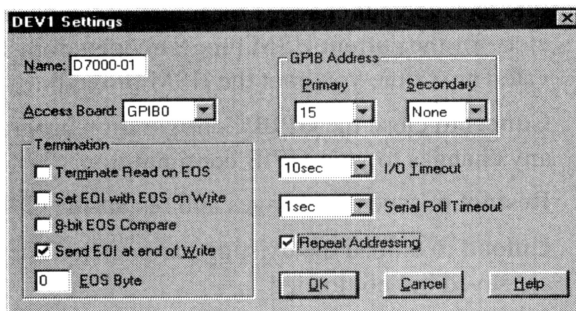
11. After verifying the settings choose **OK**. The **GPIB Configuration** dialog reappears.
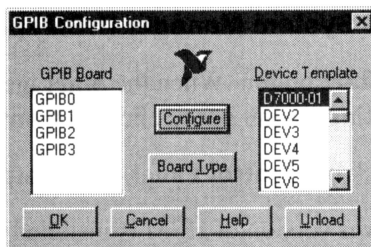
12. If you are using two or more GPIB devices (for example, the D-7000 IFM on two or more systems), repeat Steps 7 and 8 for each device. while observing the following rules:

Rule
- If two DAD detectors are selected, only two systems can be active in the multi-system version of HSM.
- If the D-6000 IFM is selected, only one system can be active.

13. Choose one of the following options:

- **OK** to save your changes for future use and uses the existing parameters for the current HSM program operation. The changes are activated next time you boot the HSM program.

- **Cancel** to close the GPIB Configuration program without making any changes to your GPIB configuration.

Hint!

- **Restart** to save the changes and restart the GPIB program.

- **Unload** to unload the existing parameters. The changes you made are saved but not loaded.

1.5 HSM Program Installation

The HPLC System Manager (HSM) program is installed after Windows 2000 is installed according to Microsoft documentation.

To install the HPLC System Manager (HSM) program:

1. Click on the **Start** button. When the **Start** menu opens, click on **Settings**. When the **Settings** menu opens click on **Control Panel**.

2. When you click on **Control Panel**, the **Control Panel** dialog opens.

Note: If a newer version of HSM is installed over previously installed version, screen and printer colors will reflect default settings. To return to the previous settings, the colors must be reset using the Edit Colors command in the HSM program.

3. Double-click the **Add/Remove Programs** icon.

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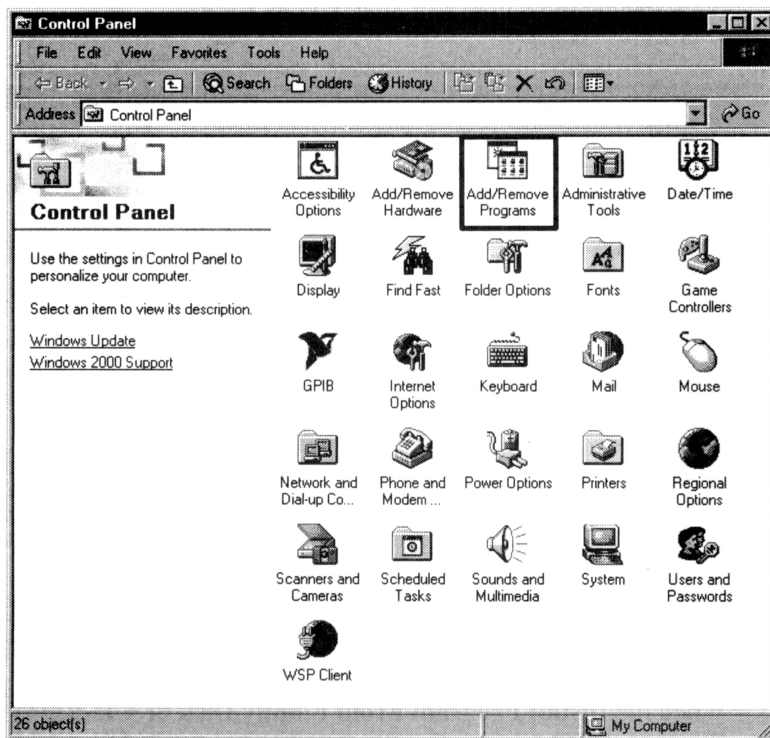
4. When the **Add/Remove Programs Properties** dialog opens, select the **Add New Programs** button and click **CD or Floppy**.
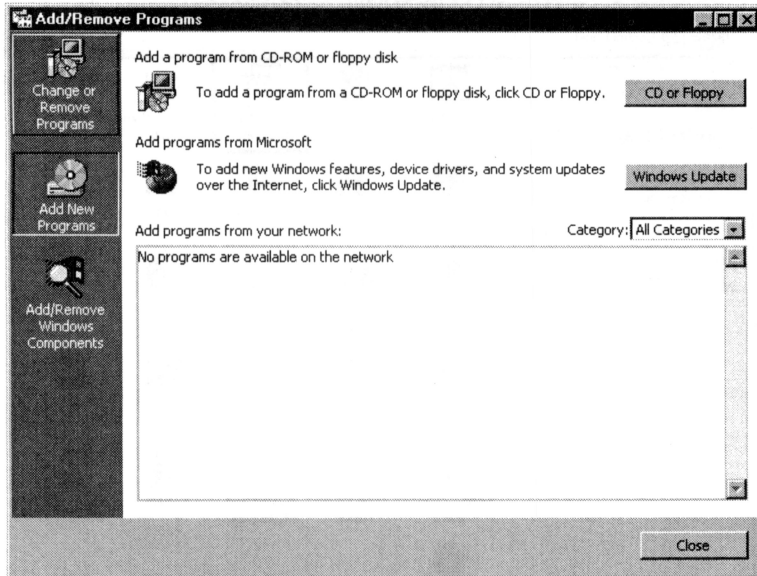
5. When the **Install Program From Floppy Disk or CD-ROM** dialog opens, insert the HSM Installation CD-ROM in the CD-ROM drive, and click on **Next**. The **Run Installation Program** dialog opens.

6. In the **Open:** text box, type **X:\DISK1\SETUP.EXE** (where **X:** is your CD-ROM drive) and click on **Finish**. The **Setup** dialog appears with a message telling you that the HSM Setup program is preparing the InstallShield Wizard.
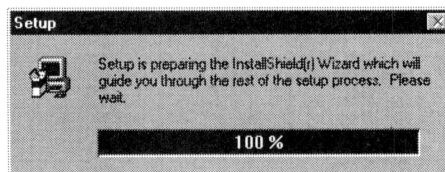
7. When the **Welcome** screen appears,.follow the directions and, if appropriate, choose **Next**
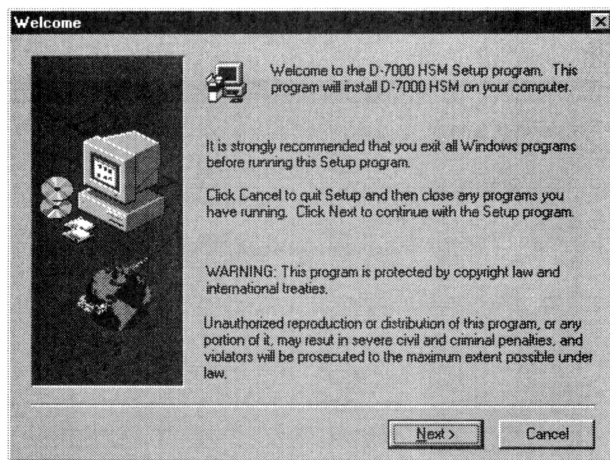
8. When the following screen appears, type in your name and the name of your company. Then, click on **Next**.
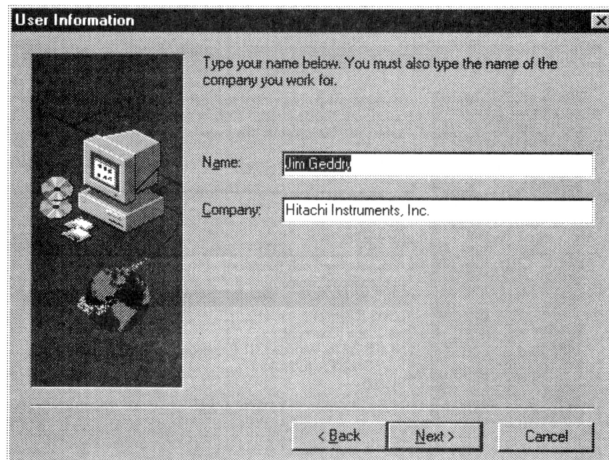
9. When the **Choose Destination Location** screen appears, note the default directory path. Either change or accept the default directory path, as necessary, and choose **Next**. To review the previous screen again, choose **Back.**
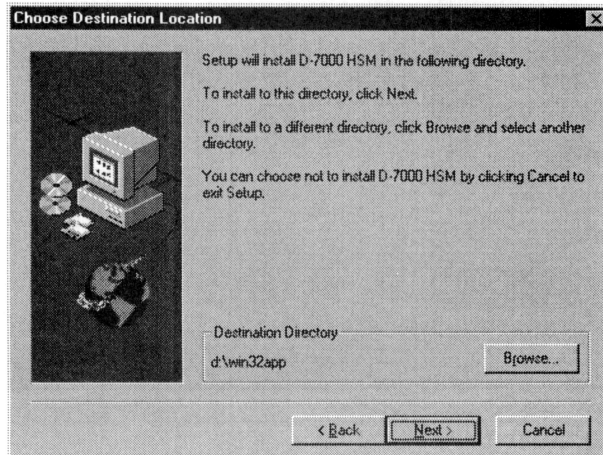
10. After choosing **Next**, the **Select Program Folder** screen appears.
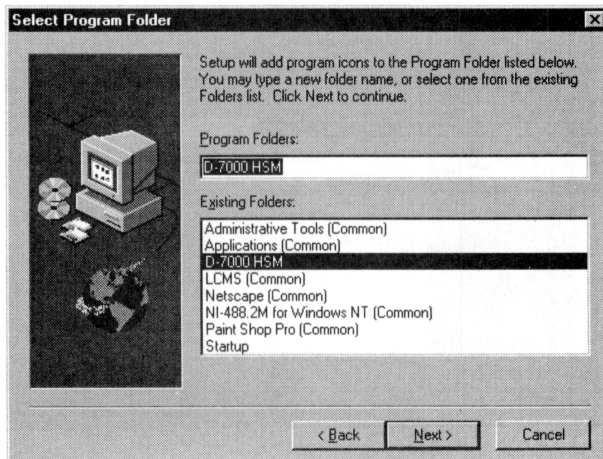
11. Type a name in the **Program Folder** text box or select a name from the **Existing Folders** list. When you click on **Next**, the **Start Copying Files** screen appears.
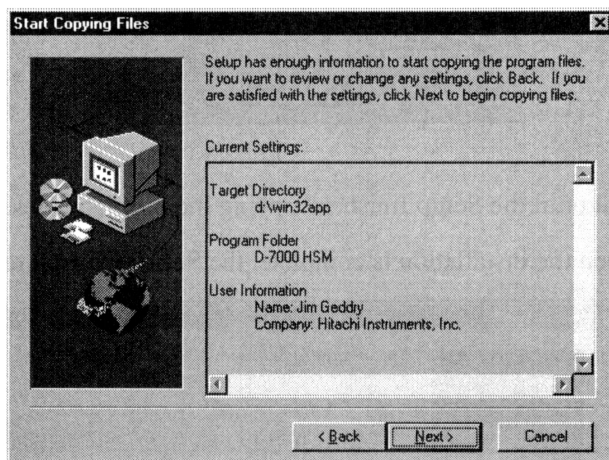
12. If satisfied with the **Current Settings** information, click on **Next**, the **Setup** dialog appears
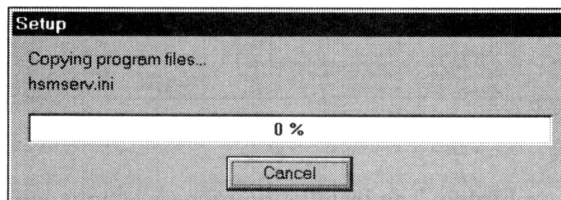
13. When the Question dialog appears, click on **Yes** if you wish to generate short-cut icons.
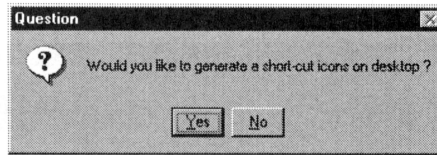
14. Wait until the Setup finishes copying the program files.

15. When the installation is complete, the **Setup Complete** screen is displayed.
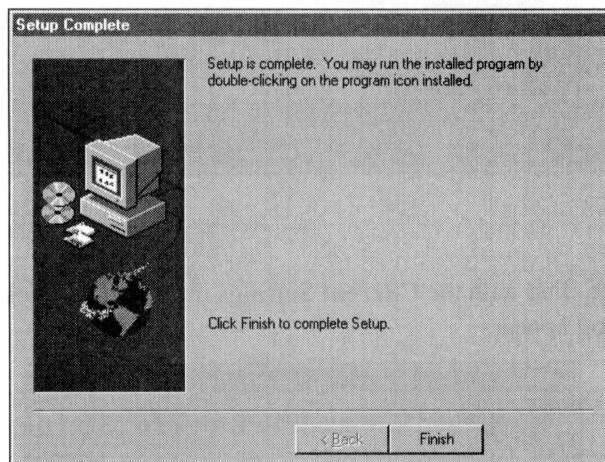
16. Click on **Finish**. The installation process is now complete.

If you wish to use the Audit Log and Sample Wizard functions, perform the steps in Section 1.6, Installing Optional Software.

1.6 Installing Optional Software

Installing the HSM program is sufficient to perform basic functions of the software. If you want to use some extended functions, however, you will need to install optional software programs:

- **Sample Wizard and Data Access Object (DAO)** - Necessary for using Sample Wizard. For an overview of Sample Wizard, refer to the D-7000 HPLC System Manager Getting Started, Chapter 4, Using Sample Wizard.

- **MS XML 3.0** - Necessary for using the Audit Log & Seal function. For an overview of Audit Log & Seal, refer to Section 2.3.4, Audit Log & Seal.

To install the Sample Wizard program, use the following steps:

1. Insert the D-7000 HSM installation CD-ROM in the CD-ROM drive of your computer.

2. From the **Start** menu, select **Run** and type as follows:

    X:\OPTIONS\SWIZ\DISK1\Setup.exe
    (where **X:** is your CD-ROM drive's drive letter).

3. The **Welcome** dialog appears. Click **Next** to start setup.

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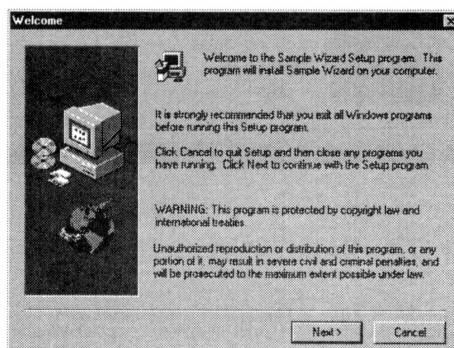
4. The **User Information** dialog appears. Type in your name and company and click **Next**.
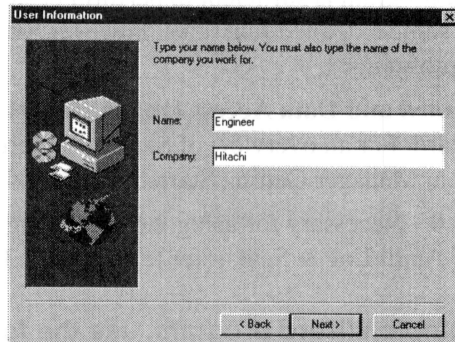
5. The **Choose Destination Location** dialog appears. Select the folder where the HSM program is installed and click **Next**.
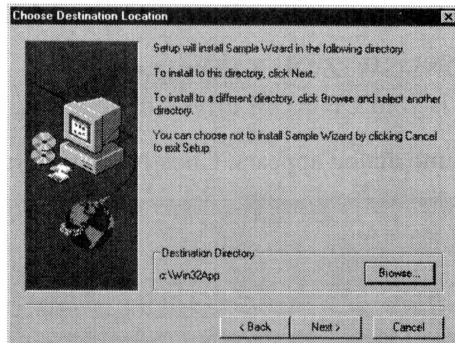
6. The **Select Program Folder** dialog appears. Click **Next**.
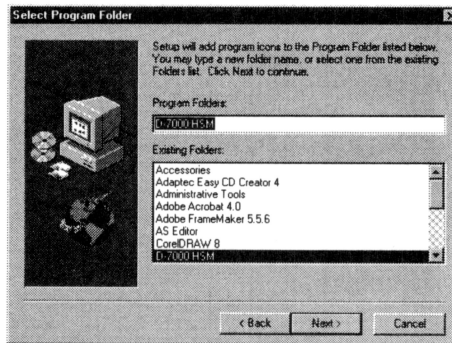
7. When the **Start Copying Files** dialog appears, confirm the setup information and click **Next**. Setup starts copying files and displays the program folder and a message as the installation completes.

8. Click **OK** and restart the computer.

To install the DAO program, use the following steps:

1. Insert the D-7000 HSM installation CD-ROM in the CD-ROM drive of your computer.

2. From the **Start** menu, select **Run** and type as follows:

   X:\OPTIONS\DAO\DISK1\Setup.exe
   (where **X:** is your CD-ROM drive's drive letter).

3. The **Welcome** dialog appears. Click **Next** to start setup.
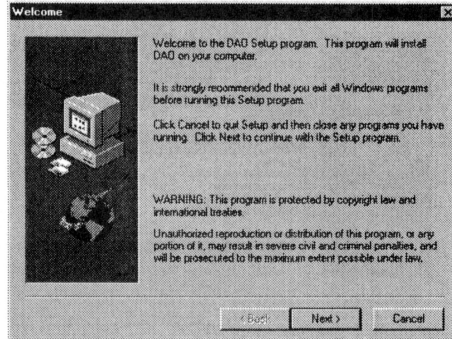
4. When the **Select Components** dialog appears, select as shown below and click **Next**.
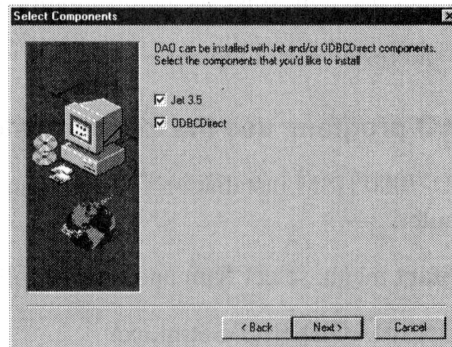
5. When the **Select Components** dialog appears, asking to choose additional data formats, select as shown below and click **Next**.
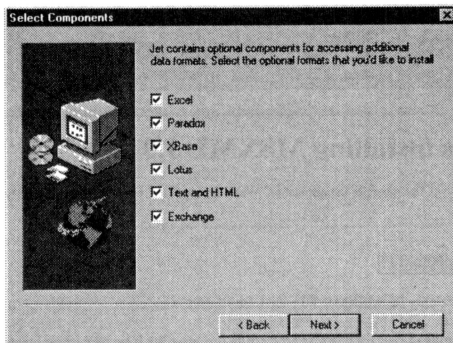
6. Setup starts copying files and displays a message as the installation completes.

7. Click **OK** and restart the computer.

To install the MS XML program in the following steps:

1. Insert the D-7000 HSM installation CD-ROM in the CD-ROM drive of your computer.

2. Start **Microsoft Internet Explorer**.

3. In the address bar, type as follows:

    file://x:\XMLSETUP\XMLSETUP.HTM

    (where **x:** is your CD-ROM drive's drive letter)

4. A web page entitled, *"This page is installing MSXML 3.0...,"* apears.
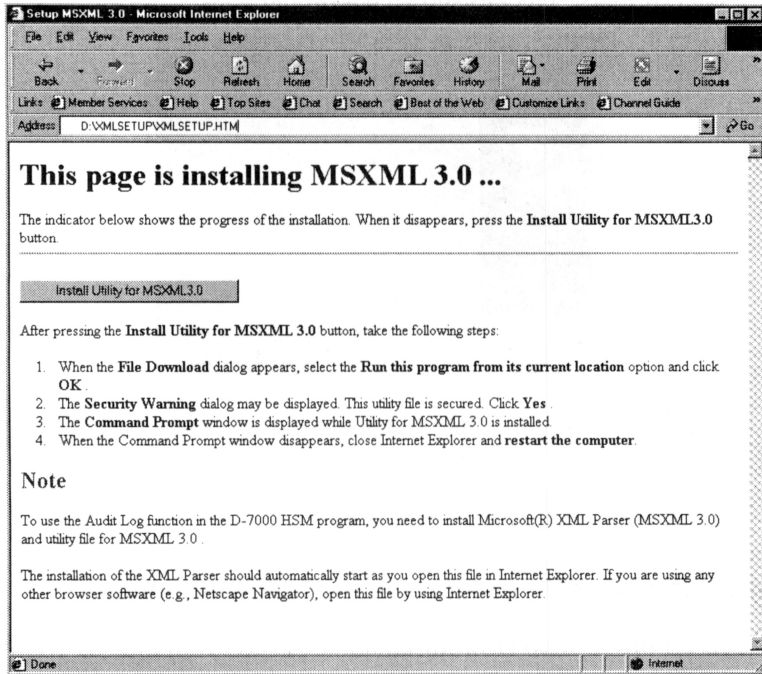
The installation starts automatically, and a progress indicator will show the status of installation. Wait until the indicator disappears.

5. Press the **Install Utility for MSXML 3.0** button.

6. When the **File Download** dialog appears, select the **Run this program from its current location** option and click **OK**.

7. The **Security Warning** dialog may be displayed. This utility file is secure. Click **Yes**.

The **Command Prompt** window is displayed while Utility for MSXML 3.0 is installed.

8. When the Command Prompt window disappears, close Internet Explorer and restart the computer.

1.7 Configuring the HSM Program

Default settings allow you to run the HSM program immediately. If you want to customize the HSM program, however, you must run the HSM Administration program first. The HSM Administration icon is found in the HSM Group window that was created during the installation process. Details of the HSM Administration program are described in Chapter 2. Refer to Section 3 of the *D-7000 HPLC System Manager Getting Started* for an example of how to configure the HSM program.

2 HSM Administration Program Reference

This section of the manual contains the following information:

- Section 2.1, Administrative Functions
- Section 2.2, Touring HSM Administration Main Screen
- Section 2.3, Understanding System Security
- Section 2.4, Remote Networking
- Section 2.5, Command Reference

2.1 Administrative Functions

Two versions of the HSM Administration program are available: a single-system version and a multi-system version. A single-system version is used to set up a D-7000 HSM program that manages only one HPLC system, and a multiple-systems version is used to set up a D-7000 HSM program that manages up to four HPLC systems. The differences between each version are explained where applicable.

The HSM Administration program provides the capability to perform the following administrative or setup functions for the D-7000 HSM program:

- **Regulate System Security**. See Section 2.3, Understanding System Security.
- **Record Name, Serial No., and Model No. of the Modules** in each HPLC system (up to four systems, maximum). See Section 2.5.2, Single Instrument (Setup Menu).
- **Set Parameters for Autosampler Rack** in each HPLC system, (up to four systems, maximum).See Section 2.5.4, Rack Parameters Setup (Setup Menu).
- **Set Standard Units for Pressure and Temperature**. See Section 2.5.3, Standard Units (Setup Menu).
- **Review and Add Comments to Hardware Maintenance Log**. See Section 2.5.10, Hardware Maintenance Log (View Menu).
- **Control or monitor HPLC systems from remote PC's**. See Section 2.4, Remote Networking.
- **Set up the System Registration** when the HSM program is to be controlled by 3rd-party software. See Section 2.5.7, Spectrum Library Directory (Setup Menu).

2.2 Touring HSM Administration Main Screen

The Main screen of the HSM Administration program appears similar to the illustration below:
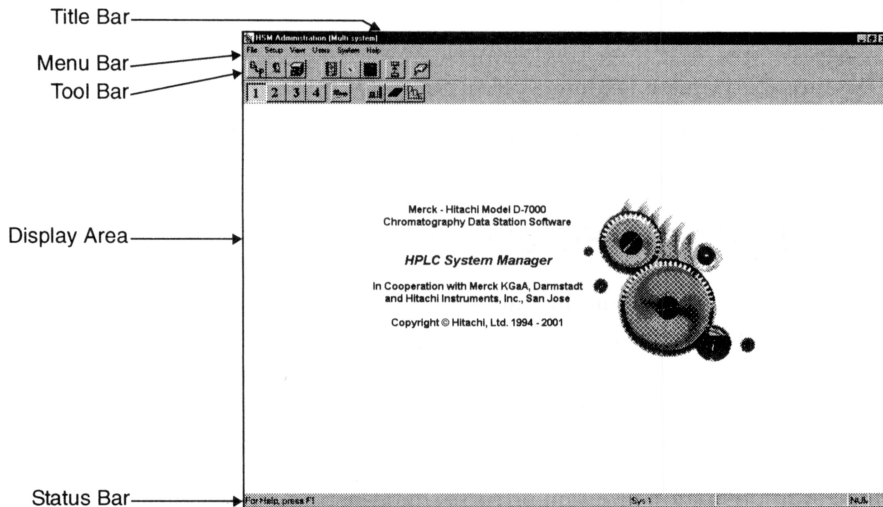
Title Bar

The Title Bar displays the HSM Administration program name and the account name of the System Administrator who opened the program.

Menu Bar

The following four menus (and their accompanying sets of commands) are accessible from the Menu Bar:

- **File**
  Exit: Exits the HSM Administration program.

- **Setup**
  Application: Opens the Application Manager dialog.
  Single Instrument: Opens the Single Instrument Setup dialog.
  Standard Units: Opens the Standard Units dialog.
  Rack Parameters: Opens the Rack Parameters Setup dialog.
  GLP Options: Opens the GLP Options dialog.

DDE Graphs: Opens the DDE Graph Options dialog.

Spectrum Library Directory: Opens the Spectrum Library Directory dialog

COM Ports Setup: Opens the Communications Port Setup dialog.

Remote Networking: Opens the Remote Networking Setup Dialog.

- **View**

  View Hardware Log: Opens the Hardware Log for viewing.

  Toolbar: Toggles Tool Bar display on or off. Checkmark indicates Tool Bar is currently being displayed.

  Status Bar: Toggles Status Bar display on or off. Checkmark indicates that Status Bar is currently being displayed.

- **Users**

  Users and Groups: Opens the Local Users and Groups or HSM User Manager dialog where you can set up users and user groups.

- **System (only on Multi-System version of HSM Administration program)**

  System 1, 2, 3, and 4. Opens a selected system.

  Edit System Name. Opens the Edit System Name dialog.

- **Help**

  About HSM Administration: Displays data describing the version of HSM Administration program you are using.

  Using Help: Opens Windows Help on how to use Help.

  Index: Opens the HSM Administration Help index.

Tool Bar

The table that follows provides a listing of the icons on the Tool Bar of the Main screen of the HSM Administration program. It also lists the alternative menu/command selections accessible from the menu bar on the Main screen.

> **Note:** The number icons and their arrangement on the tool bars differs between the Single-System and Multi-System versions of the HSM Administration program. The differences are noted where applicable.

Icon	Name	Menu>Command
	Application Setup	Setup>Application
	View Hardware Log File	View>View Hardware Log
	Execute the User Manager Program	Users>User and Groups
	Standard Units Setup	Setup>Standard Units
	GLP Setup	Setup>GLP Options
	Spectrum Library Directory	Setup>Spectrum Library Directory
	Remote Networking Setup	Setup>Remote Networking

Icon	Name	Menu>Command
	Communication Port Setup	Setup>COM Ports Setup
1 2 3 4 (Multi-System Version Only)	Select Systems 1, 2, 3, and 4	System>System 1, 2, 3, and 4
	Edit System Name	System>Edit System Name
	Single Instrument Setup	Setup>Single Instrument
	Rack Parameters Setup	Setup>Rack Parameters
	DDE Graph Setup	Setup>DDE Graphs

Status Bar

The Status Bar displays the text "For Help press F1" at its left end and displays keyboard status for Caps Lock, Num Lock, and Scroll Lock in a set of three boxes at its right end. In the screen illustrated, the Num Lock function is active.

Display Area

The Display Area provides space for the various dialogs to open as you either click on icons in the Tool Bar or make command selections from the Menu Bar. The screen display shown in the accompanying illustration (the text and set of meshed gears) displays as the background throughout your operation of the HSM Administration program.

2.3 Understanding System Security

Access to the functions and files of the D-7000 HSM and HSM Administration programs is regulated by the system security provisions built into Windows 2000. This approach creates User groups to define user privileges and Applications groups to regulate user access to files.

The steps to set up security are outlined below. Read through this document to learn further details.

1. Using the **GLP Options** command under the **Setup** menu, select the **Security** option in the **GLP Options** dialog (Section 2.5.5, "GLP (Good Laboratory Practices) Options (Setup Menu)").

2. Using the **Users and Groups** command under the **Users** menu, create and assign privileges to users and user groups (Section 2.5.11, "Users and Groups (Users Menu)").

3. Using the **Application** command under the **Setup** menu, create applications in the **Application Manager** dialog (Section 2.5.1, "Application (Setup Menu)").

4. In the **Application Manager** dialog, assign users/user groups to each application using the **Set Permissions** or **Members** function (Section 2.5.1, "Application (Setup Menu)").

5. For record keeping and protection, use the **Audit Log & Seal** function in the **Application Manager** dialog to store a log of user access to application files and apply a digital seal (Section 2.5.1, "Application (Setup Menu)").

2.3.1 Effects of GLP Options on Program Security

The security functions of the HSM program are affected by the options selected in the **GLP Options** in the HSM Administration program. You can open the **GLP Options** dialog by either clicking on ![Glp icon] or selecting **GLP Options** from the **Setup** menu.
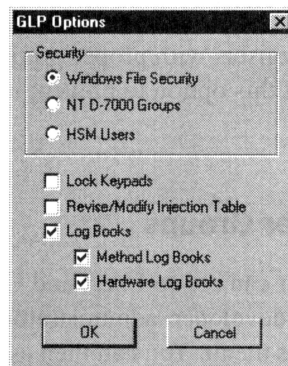
The options that affect security functions are as **Security** and **Revise/Modify Injection Table**:

Security

- **Windows File Security** - The HSM program will use the Windows security definitions. The users/user groups and security levels will be the same as the definitions set up in the Windows operating system, and no further HSM internal security will be used. This is the default option.

- **NT D-7000 Groups** - You can assign D-7000 internal user groups to Windows users. Users who access HSM must belong to one of the D-7000 user groups and file access will be limited by the D-7000 user level granted to each user.

- **HSM Users** - You can set up HSM internal users, separate from Windows users. Users who access HSM must input the HSM user name and password. This option is recommended for multi-system HSM.

  Note: If you select Windows File Security or NT D-7000 Groups, the effect from adding, deleting, or changing users or user groups does not occur until Windows 2000 is logged off and then logged on again. You need not restart the computer.

  If you select HSM Users, the change to users will take effect when you first open the HSM program after you close the HSM Administration.

Revise/Modify Injection Table

Select this option to allow users with proper privilege (non-operator) to edit Injection Tables. Deselect this option to prevent users from editing the Injection Tables.

2.3.2 Users and User Groups

Your system administrator can set up Users and User Groups to regulate user privileges (e.g., operator, developer, administrator) via the **Users and Groups** command under the **Users** menu. You can then assign users or user groups to applications with difference types of accessible data via the **Application Manager** dialog. How the user and user groups are managed varies depending on the **Security** option in the **GLP Options** dialog (see Section 2.3.1, "Effects of GLP Options on Program Security").

Refer to Chapter 3 of the *D-7000 HPLC System Manager Getting Started* for the basic procedure used for setting up User Groups.

2.3.3 Applications and Membership (Access Permissions)

The D-7000 HSM will manage method, sample, data, and report files based on applications. While the users and user groups determine *levels of access* to system data, the applications and their membership (access permissions) determine the *types of data* to which users have access. For example, a user performing product QA/QC work at a pharmaceutical manufacturing site might be granted access to file directories containing USP-related product qualification data, while being excluded from file directories containing synthesis purity analyses generated by an R&D group located elsewhere in the same facility.

Applications and their membership (permissions) are managed via the **Application** command under the **Setup** menu. When you select the **Application** command, the **Application Manager** opens where you can create and delete an application and define user permissions to access to application files. (See Section 2.5.1, "Application (Setup Menu)".)

The HSM Administration program can define any subdirectory of any valid Windows 2000 data-storage drive as an application. Each new application is defined in the **Create Application** area of the **Application Manager**.

You can assign membership (or access permissions) to each application to each user/user group using the **Set Permissions** or **Members** function. The dialog to be used varies, depending on the Security option in the GLP Options dialog:

- **GLP Security option = Windows File Security** - You can assign access permissions using the Windows 2000 permission definitions via the **Set Permissions** function.

  Note: This function is available only with an application created in a drive formatted in the NTFS file system using HSM version 5 or later. You cannot apply this function to applications created in an older version of HSM copy data/method files from an older application to a newer application.

- **GLP Security option = NT D-7000 Groups or HSM Users** - HSM internal permission definitions are used via the **Members** function.

With a careful planning, multiple users can be assigned to a single application with varying levels of access types. For example, while User A is allowed to modify method and data for Application A, User B may only be able to run acquisitions and view data for the same application.

2.3.4 Audit Log & Seal

Use the **Audit Log & Seal** function to store a record of accesses to application files with user and date/time of access in an audit log. It also applies a digital seal to accessed application files for protection. (Section 2.5.1, "Application (Setup Menu)".)

> **Note:** If the data of a protected application were modified, an error message will be displayed when the data file is opened in HSM.
>
> The Audit Log & Seal function is available for applications newly created using HSM version 5 or later. You cannot apply this function to applications created in an older version of HSM, even when you restore an older application or copy data/method files from an older application to a newer, protected application.

2.4 Remote Networking

The **Remote Control Networking** feature enables HSM applications to be controlled and/or monitored from remotely connected Client PC's. For example, a Client Controller PC, in a laboratory, could control up to four HSM applications and a Client Monitor PC, in a remote office, could monitor data acquisition on these applications. Many Remote Control configurations are possible, but all configurations are subject to the following requirements and constraints:

- All Client PC's must be connected to an LAN (Local Area Network).
- One HSM Administration program and from one to four HSM programs must be installed on each Client PC (i.e., no more than four HSM Application programs, whether Controller or Monitor, can be installed on one Client PC).
- One HSM Server is required for connection to each set of up to four HPLC systems. The Server can be installed on a Client Controller PC or on a separate Client Server PC.
- HSM Application can be connected/disconnected by selections on the System Hardware Status dialog which is accessed from the Main Tool Bar on each HSM Application.
- Monitor can connect to remote system during data acquisition
- D-7000 security
- User Name

2.4.1 Single System Configuration

In the following example, HPLC Systems A1 through A4 are controlled and monitored remotely.

- Remote PC-C, in the office, is the monitor for four HPLC Systems, A1 through A4.
- Local PC-A, in the laboratory, is the server and the controller for Systems A1 through A4.

  Note: Remote PC-C can monitor data acquisition and status of HPLC Systems A1 through A4, but cannot start/stop data acquisition or turn on/off pumps.

To setup local PC-A:

On local PC-A, launch the HSM Administration program. Then, select Systems 1, 2, 3, 4 and edit each System Name and set up each Instrument Configuration.

> **Note:** When Client Controller and Client Server exist on the same PC, you do not have to set up Remote Networking. .

To setup remote PC-C:

On remote PC-C, launch the HSM Administration program and perform the following:

1. Select **Remote Networking** from the **Setup** menu. The Remote Networking Setup dialog opens.

2. In the dialog display box, enter data under each column header as listed below.

Server PC Name	Hardware System Name	Remote System Name	Access Type
PC-A	HPLC-A1	PC-A/HPLC-A1	Monitor Only
PC-A	HPLC-A2	PC-A/HPLC-A2	Monitor Only
PC-A	HPLC-A3	PC-A/HPLC-A3	Monitor Only
PC-A	HPLC-A4	PC-A/HPLC-A4	Monitor Only

2.4.2 Multiple System Configuration

In the following example, HPLC Systems A1 through A4 and B1 through B4 are controlled and monitored remotely.

- **Remote PC-C**, in the office, is the controller for four HPLC Systems, A1, A2, B1, and B2.

- **Local PC-A**, in the laboratory, is the server for four HPLC Systems, A1 through A4. Local PC-A is also the monitor for Systems A1 and A2 and the controller for Systems A3 and A4. **Local PC-B**, in the laboratory, is the server for four HPLC Systems, B1 through B4. Local PC-B is also the monitor for Systems B1 and B2 and the controller for Systems B3 and B4.

  Note: Local PC-A and local PC-B can only monitor data acquisition and status of Systems A1, A2 and Systems B1, B2. They cannot start/stop data acquisition or turn on/off the pumps.

LAN

PC-A

Client Server
for
HPLC-A1, A2, A3, A4
_____
Client Controllers
for
HPLC-A3, -A4
_____
Client Monitors
for
HPLC-A1, -A2

GPIB

HPLC-A4

HPLC-A3

HPLC-A2

HPLC-A1

PC-B

Client Server
for
HPLC-B1, -B2, -B3, -B4
_____
Client Monitors
for
HPLC-B1, -B2
_____
Client Controllers
for
HPLC-B3, -B4

GPIB

HPLC-B4

HPLC-B3

HPLC-B2

HPLC-B1

PC-C

Client
Controllers
for
HPLC-A1, -A2
and
HPLC-B1, -B2

To setup local PC-A:

On local PC-A, launch the HSM Administration program. Then, select Systems 1, 2, 3, 4 and edit each System Name and set up each Instrument Configuration.

> **Note:** When Client Controller and Client Server exist on the same PC, you do not have to set up Remote Networking.

To setup local PC-B:

On local PC-B, launch the HSM Administration program. Then, select Systems 1, 2, 3, 4 and edit each System Name and set up each Instrument Configuration.

> **Note:** When Client Controller and Client Server exist on the same PC, you do not have to set up Remote Networking.

To setup remote PC-C:

On remote PC-C, launch the HSM Administration program and perform the following:

1. Select **Remote Networking** from the **Setup** menu. The Remote Networking Setup dialog opens.

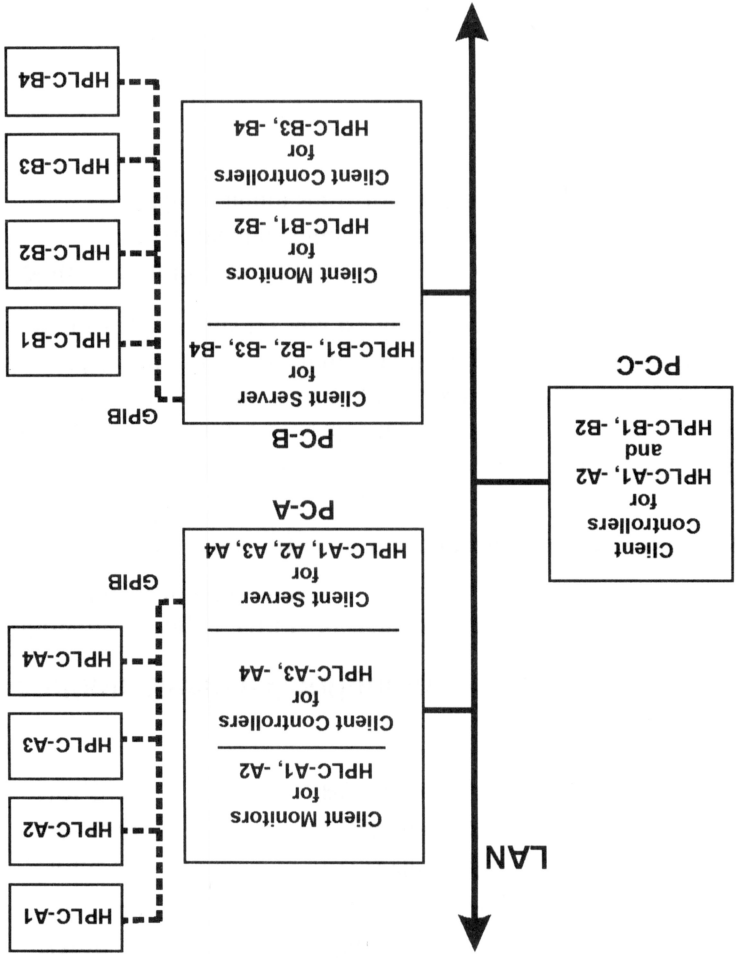2. In the dialog display box, enter data under each column header as listed below:

Server PC Name	Hardware System Name	Remote System Name	Access Type
PC-A	HPLC-A1	PC-A/HPLC-A1	Control & Monitor
PC-A	HPLC-A2	PC-A/HPLC-A2	Control & Monitor
PC-B	HPLC-B1	PC-A/HPLC-B1	Control & Monitor
PC-B	HPLC-B2	PC-A/HPLC-B2	Control & Monitor

2.5 Command Reference

This section provides detailed information on each command of the HSM Administration program.

Setup Menu

- Application (page 46)
- Single Instrument (page 53)
- Standard Units (page 56)
- Rack Parameter (page 57)
- GLP (Good Laboratory Practices) Options (page 61)
- DDE Graphs (page 62)
- Spectrum Library Directory (page 63)
- Com Ports Setup (page 64)
- Remote Networking (page 65)

View Menu

- Hardware Maintenance Log (page 67)

Users Menu

- Users and Groups (Section 2.5.11, Users and Groups (Users Menu) on page 72 and Section , HSM User Manager Dialog on page 78).

System Menu

- Edit System Name (page 80)

2.5.1 Application (Setup Menu)

When you click ▦ or select the **Application** command under the **Setup** menu, the **Application Manager** dialog opens where you can set up new applications, edit or delete existing applications, and assign access privilege for each application to users/user groups.
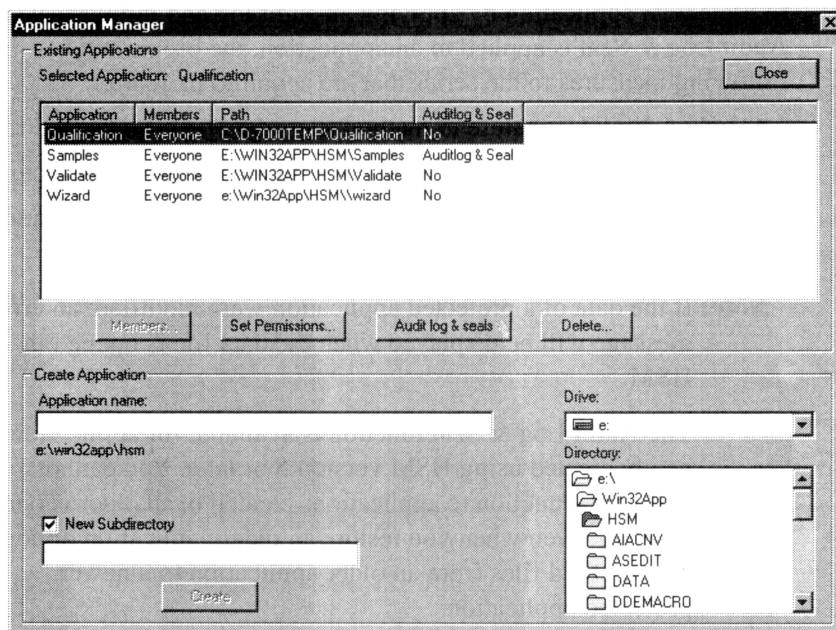
On this dialog, you can perform the following:

- **Creating and deleting applications** - Using the Create and Delete buttons, add or remove applications from the system.

    Note: This function is available only with an application created in a drive formatted in the NTFS file system using HSM version 5 or later. You cannot apply this function to applications created in an older version of HSM, even when you copy data/method files from an older application to a newer, protected application.

- **Assigning membership or access permissions to users for each application** - Using the Members or Set Permissions buttons, assign permissions to users or user groups to access files of each application.

HITACHI

- **Applying protection by Audit Log & Seal** - You can select to protect or not to protect an application by applying an audit log and digital seal. When the Audit Log & Seal is applied to an application, the program takes the following measures to the series that are acquired thereafter:

  - Apply a digital signature to method files, data files, and saved reports.

  - Create an audit trail log for each series to record any file tempering.

  - Prompt for reasons during acquisition and data recalculation and add the user

  Note: If the data of a protected application were modified, an error message will be displayed when the data file is opened in HSM.

  The Audit Log & Seal function is available for applications newly created using HSM version 5 or later. You cannot apply this function to applications created in an older version of HSM, even when you restore an older application or copy data/method files from an older application to a newer, protected application.

To create a new application:

1. For each new application, enter a name in the **Application name** text box.

2. Select the drive in the **Drive** drop-down list box.

3. Select directory in the **Directory** drop-down list box.

4. To create a new subdirectory with the application's name, add check mark to **New Subdirectory** check box and type in the new directory name in the enabled text box. The complete path is shown directly below the **Application Name** text box.

Note: If the GLP security option is **Windows File Security**, you can apply user permissions to the created application using the **Set Permissions** button. To use this function, create the application in a drive formatted in the NTFS file system. Please note that you cannot apply this function to applications created in HSM version older than 5.0, even when copy data/method files from an older application to a newer application.

5. Click the **Create** button. Note that the new application name appears in the **Existing Applications** box. The default member for new applications is **Everyone**.

To delete an application:

1. Highlight the application you want to delete in the Selected Application list box.

2. Click the **Delete** button. A message box appears: *Are you sure you want to remove the application...? This will not delete the data or directory.*

3. Click on **Yes** to continue.

To assign membership to users/user groups:

Note: Follow this procedure when the GLP Security option is **NT D-7000 Groups** or **HSM Users**.

1. Highlight an application in the **Existing Applications** list.

2. Click on the **Members** button to open the **Members** dialog.
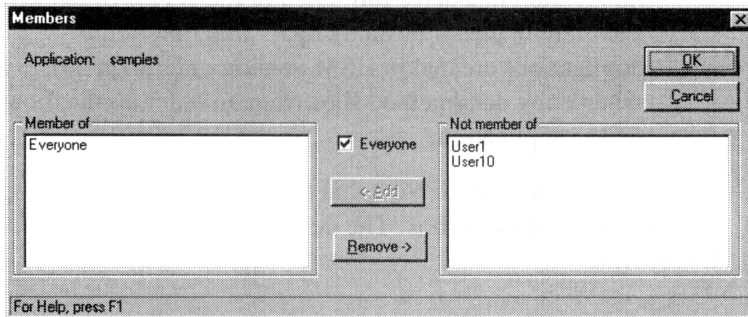
> **Note:** The check box **Everyone** is only available when HSM Users
> is selected for the GLP Security option. It is the default
> setting when a new application is created. Unchecking the
> Everyone box will disable the Remove button, enable the
> Add button, and remove Everyone from the Member of box.
>
> If the GLP Security option is NT D-7000 Groups, the user
> group **Everyone** is under the **Member of** list as default, and
> the predefined user group names are listed under the **Not
> member of** list. Highlight **Everyone** and click **Remove** to
> activate the **Add** button and assign specific user groups to
> the application.

3. Highlight a selection in the **Not member of** box and click the **Add** button.
    The selection is transferred to the **Member of** box.

4. Click **OK** to accept the member selection, close the **Members** dialog, and
    return to the **Application Manager**.

To assign access permissions to users/user groups:

> **Note:** Follow this procedure when the GLP Security option is
> **Windows File Security**.

1. Highlight an application in the **Existing Applications** list.

2. Click on the **Set Permissions** button to open the **Application User Permissions Setup** dialog.
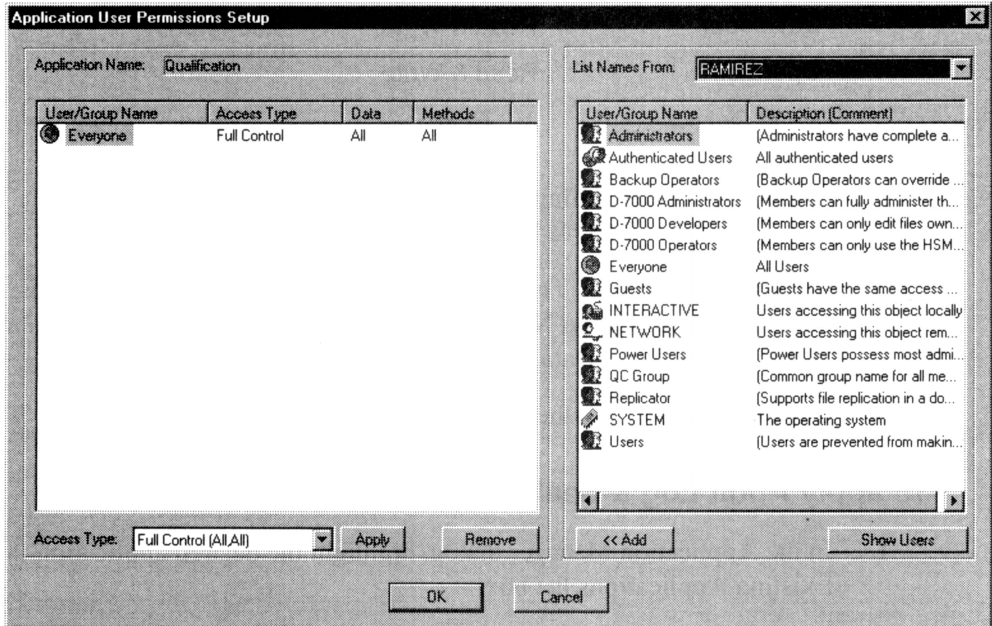
3. If you are setting up permissions for several networking machines, click the **List Names From** combo box and select the machine name that stores user/user group names to edit.

4. The user group names registered in Windows 2000 are first listed in the list box under **List Names From**. Click **Show Users** to list individual users' names from Windows 2000 settings.

5. Highlight the user/user group name in the list.

6. From the **Access Type** combo list, select the permission type to give to the selected user/user group.

	Data	Method
Full Control	All (Full Control)	All (Full Control)
Developer	Read & Write	Mod (Modify)
Operator	Read & Write	Read
Read Only	Read	Read

Note: For detailed definitions of the permission types, refer to Windows 2000 ® Help - NTFS Permissions.

7. Click the **Add** button. The selected user/user name is now listed in the list box under **Application Name** with the selected permission type displayed in the Access Type, Data, and Methods columns.

8. Click **OK** to return to the **Application Manager** dialog.

To apply Audit Log & Seal:

1. In the Application Manager dialog, highlight the desired application in the Existing Applications list box.

2. Click Audit Log & Seal. The protection status will be displayed under the Audit Log & Seal column of the Selected Application list box.

    -   **Audit Log & Seal** - This option is available and selected for the application.

    -   **No** - This option is available but not selected for the application.

    -   **N/A** - This option is not available for the application.

2.5.2 Single Instrument (Setup Menu)

When you click on ▣ or select the **Single Instrument** command in the **Setup** menu, the **Single Instrument Setup** dialog opens.
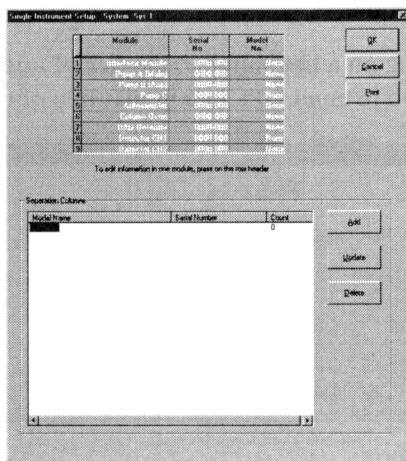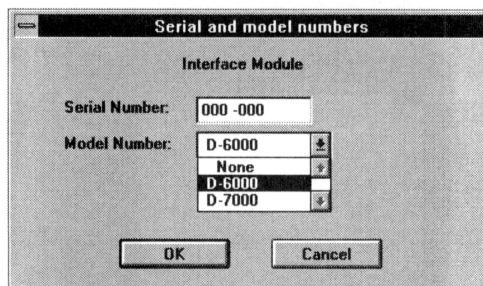

If the multi-system version of the HSM Administration program is used, you must first specify the system (System 1, 2, 3, or 4 from the menu bar or tool bar) before opening the Single Instrument Setup dialog.

Use the Single Instrument Setup dialog to create a record of the instruments comprising the HPLC system.

To complete entries in the Single Instrument Setup dialog:

1. Click on the red number that is located at the left end of the line in which you wish to enter/edit data. In the above example, Line 1 specifies the Interface Module.

   After clicking on a line number, the **Serial and model numbers** dialog opens for you to enter/edit data in that line of the chart.
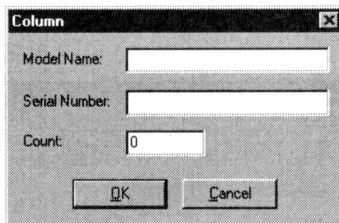

2. Enter the **Serial Number**, select a **Model Number**, and click on **OK**. The focus returns to the **Single Instrument Setup** dialog.

3. Repeat steps 1 through 2, as necessary.

4. Use the **Column** group near the bottom of the Single Instrument Setup dialog to **Add/Delete** or **Update** the columns available for the Method configuration in the HSM.

To add a separation column:

1. Click on the **Add** button. The **Column** dialog opens.

2. Enter the **Model Name** and **Serial Number** for the Separation Column being used.

3. For **Count,** enter the number of times the analytical column has been used.

4. Click on **OK**. The **Column** dialog closes and focus returns to the **Single Instrument Setup** dialog.

## To delete a separation column:

1. Highlight an entry in the **Separation Columns** list box. Note the **Delete** button is enabled.

2. Click on the **Delete** button.

3. In response to the confirmation message, click on **OK**.

To change information of a separation column:

1. Highlight an entry in the **Separation Columns** list box. Note the **Update** button is enabled.

2. Click on the **Update** button. The **Column** dialog appears. Up to 100 columns may be specified.

3. Enter updated **Name** (30 characters, max), **Serial Number** (20 characters, max.), or **Count** and click on **OK**. The **Column** dialog closes and focus returns to the **Single Instrument Setup** dialog.

2.5.3 Standard Units (Setup Menu)

When you click on [⬛] or select **Standard Units** in the **Setup** menu, the **Standard Units** dialog opens.
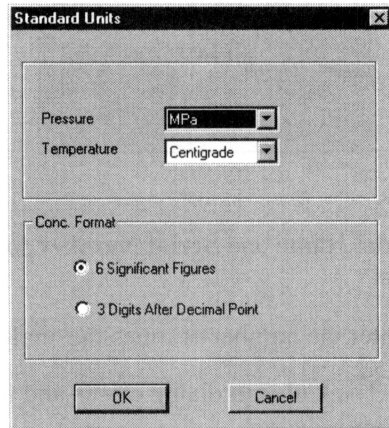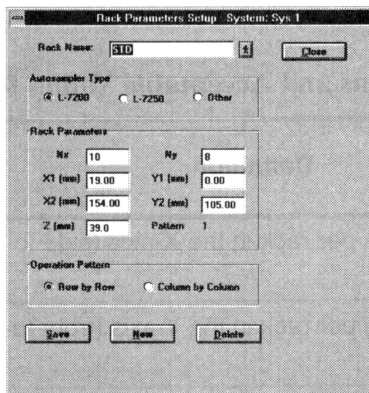

To set standard units for pressure and temperature and the display format for concentration values:

1. Click the **Pressure** drop-down list box and select the desired unit of pressure.

2. Click the **Temperature** drop-down list box and select the desired unit of temperature.

3. From the **Conc. Format** area, select the desired format for displaying concentration values.

4. Choose **OK** to close the dialog and return to the Main screen.

2.5.4 Rack Parameters Setup (Setup Menu)

Open the **Rack Parameters Setup** dialog by either clicking on [icon] or by selecting **Rack Parameters** in the **Setup** menu.

This dialog (see illustration that follows) allows you to specify the setup parameters for the sample rack in the autosampler in your system. If the multi-system version of the HSM Administration program is used, you must first specify the system (System 1, 2, 3, or 4) before opening the Rack Parameters Setup dialog.

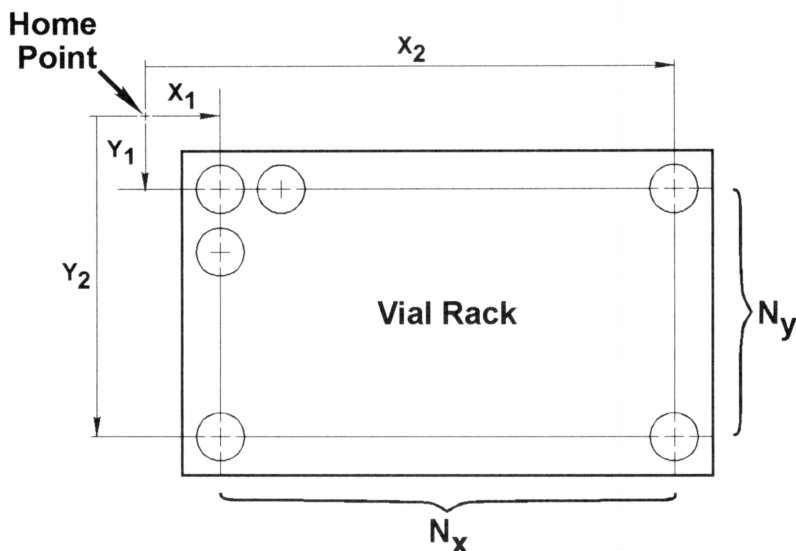### To create a new set of rack parameters:

1.   Click on **New**. A blinking cursor appears in the **Rack Name** box.

2.   Type in a new rack name.

3.   Select the type of autosampler from the three radio buttons contained in the **Autosampler Type** box. If using a Hitachi L-7200 or L-7250, mark **L-7200** or **L-7250**; if using any other Hitachi autosampler, or an autosampler from another manufacturer, mark **Other**.

4.   Enter the **Rack Parameters** data. Refer to the table of L-7200 rack
      parameters that follows for the minimum and maximum values that can be
      entered in each of the Rack Parameter fields. Refer to the following
   illustration to better understand the parameters used to define rack
      dimensions.

Table 1: Definitions and Acceptable Values for Rack Parameters

Parameter	Definition	Minimum Value	Maximum Value
N_x	Number of vials per rack in the X-axis (side to side)	1	20
N_y	Number of vials per rack in the Y-axis (front to back)	1	20
X_1	Distance (mm) in the X-axis from the Home Point to the center of the first vial in the rack.	0 mm	156 mm
X_2	Distance (mm) in the X-axis from the Home Point to the center of the last vial in the rack.	0 mm	156 mm
Y_1	Distance (mm) in the Y-axis from the Home Point to the center of the first vial in the rack.	0 mm	107 mm
Y_2	Distance (mm) in the Y-axis from the Home Point to the center of the last vial in the rack.	0 mm	107 mm
Z	Distance (mm) in the Z-axis by which the needle descends from its Home Point prior to beginning to withdraw sample.	0 mm	57 mm
Pattern	Order and direction in which the vials are sampled. The illustration on the next page shows two possible sampling patterns.	1: Row by Row 2: Column by Column	

The illustration that follows shows how the various vial position entries are determined.

5. Select and enter the **Pattern** number using the following Code Numbers:
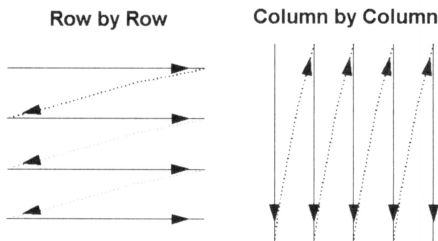
6. After naming the rack and assigning all its parameters (including the Pattern number), choose **Save** to create a new Rack Parameters file.

To edit the existing rack parameters:

1. Click the **Rack Name** drop-down list box and select the rack name you want to edit.

2. Make the necessary changes and then choose the **Save** button.

3. When the message, "This Rack Record Exists, Write Over It?" appears, click on the **Yes** button (or enter Y on the keyboard) to invoke the changes.

4. Click the **Close** button. This closes the Rack Parameters Setup dialog and returns to the Main screen.

To delete the existing rack parameters:

1. Click the **Rack Name** drop-down list box and select the rack name you want to delete.

2. Click the **Delete** button.

3. Click the **Close** button. This closes the Rack Parameters Setup dialog and returns to the Main screen.

2.5.5 GLP (Good Laboratory Practices) Options (Setup Menu)

Open the **GLP Options** dialog by either clicking on [icon] or by selecting **GLP Options** from the **Setup** menu.
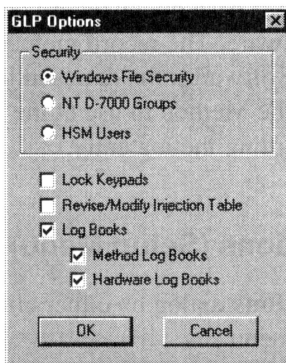
- **Security section**

  Windows File Security - The HSM program will use the Windows security definitions. The users/user groups and security levels will be the same as the definitions set up in the Windows operating system, and no further HSM internal security will be used. This is the default option.

  NT D-7000 Groups - You can assign D-7000 internal user groups to Windows users. Users who access HSM must belong to one of the D-7000 user groups and file access will be limited by the D-7000 user level granted to each user.

  HSM Users -you can set up HSM internal users, separate from Windows users. Users who access HSM must input the HSM user name and password. This option is recommended for multi-system HSM.

- **Lock Keypads**

  Mark this box to lock the keypads on the front panel of each analytical instrument running in series Run under the control of the HSM program. The default setting for this option is unmarked.

- **Revise/Modify Injection Table**

  Mark this check box to prohibit changing injection tables. No one can change the injection table until a System Administrator reopens the HSM

Administration program and unmarks this box. The default setting for this
option is marked.

- **Log Book**

  Mark this box to enable the system to maintain Method Log Books, Hardware
  Log Books, or both. These books record changes that occur to either the
  method or the hardware. The record includes the name of the event that
  occurs (e.g., Start Software), the date and time of the event, the User at the
  time of the event, the Method in use at the time of the event, and a data field
  for comments regarding the log entry.

2.5.6 DDE Data Options (Setup Menu)

Open the **DDE Data Options** dialog by either clicking on [icon] or by selecting **DDE
Graphs** from the **Setup** menu.
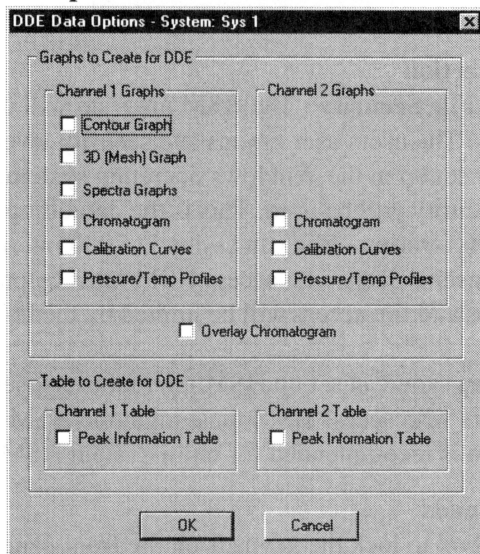
Use the choices in the DDE Options dialog to specify the minimum number of
metafiles that are generated if the Method has no limitations. These metafiles are
produced even if the parameters in the report layout template do not request the
processing.

- **Graphs to Create for DDE**
  Contour Graph - Check to create contour graphs for DDE.
  3D (Mesh) Graph - Check to create 3D mesh graphs for DDE.
  Chromatogram - Check to create chromatogram graphs for DDE.
  Calibration Curves - Check to create calibration curve graphs for DDE.
  Pressure/Temp Profiles - Check to create pressure/temperature profile graphs for DDE.
  Overlay Chromatogram - Check to create overlay graphs for DDE.

- **Tables to Create for DDE** - Peak Information tables will not be printed in the report unless Channel 1 or Channel 2 Peak Information Tables radio buttons is checked.

2.5.7 Spectrum Library Directory (Setup Menu)

When you select the **Spectrum Library Directory** command on the **Setup** menu, or click on ▣, the **Spectrum Library Directory** dialog opens.
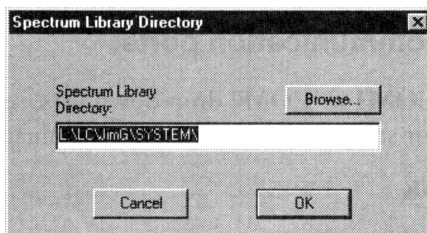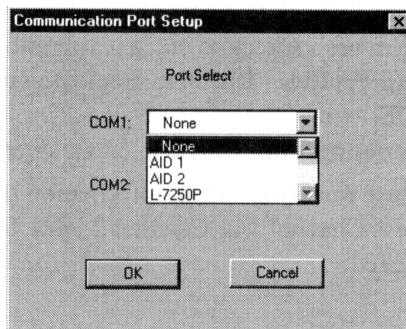

If you enter a new directory path in the entry box and click **OK**, the new pathname is updated in the registry.

The default directory is the **System** directory under the directory where HSM is installed. Use the **Browse** button to locate the new path that is to be entered.

2.5.8 Com Ports (Setup Menu)

Use **COM Ports Setup** command to open the **Communications Port Setup** dialog.


> **Note:** The Communication Port Setup is required when the
> Autosampler (AS) Editor is used in the Analog Input Device
> (AID) and/or L-7250 Autosampler program modes.

To set up the communication ports:

1. From the **COM1** or **COM2** drop-down lists, select the device connected to
    each port, or select None if no device is connected to the port.
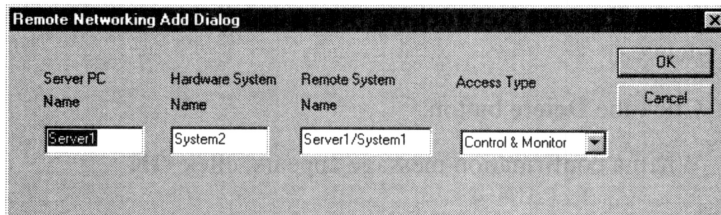
2. Click on **OK**.

2.5.9 Remote Networking (Setup Menu)

The **Remote Networking Setup Dialog** opens when you select **Remote Networking** from the **Setup** menu, or select [icon].
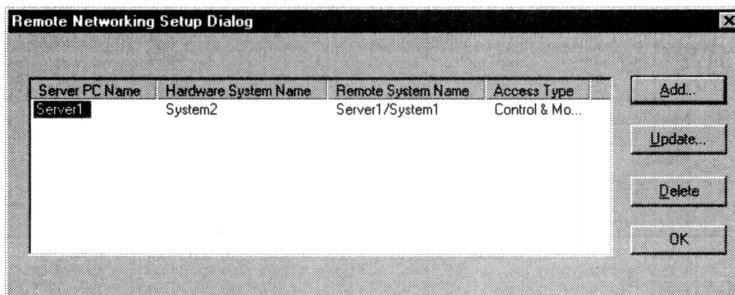
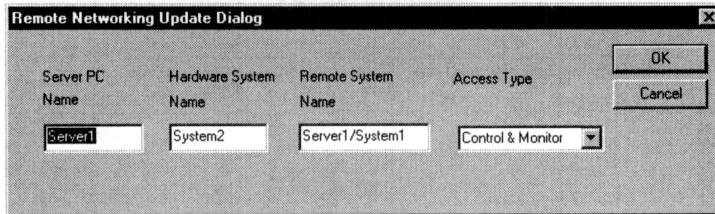## To add a remove server:

1. Click on the **Add** button. The **Remote Networking Add Dialog** opens.

2. Referring to Section 2.4, "Remote Networking", set up the server and click **OK**.

To edit server settings:

1. In the **Remove Networking Setup** dialog, highlight the server entry to edit.

2. Click the **Update** button. The **Remove Networking Update Dialog** opens.

3. Referring to Section 2.4, "Remote Networking", set up the server and click **OK**.

To delete a server:

1. In the **Remove Networking Setup** dialog, highlight the server entry to delete.

2. Click the **Delete** button.

3. When a confirmation message appears, click **OK**.

2.5.10 Hardware Maintenance Log (View Menu)

Select **View Hardware Log** from the **View** menu, or select [icon] to open the **Hardware Maintenance Log** dialog.
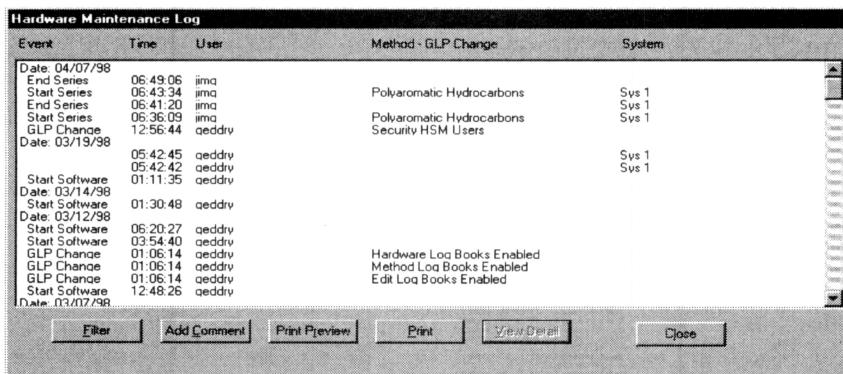
This dialog provides a chronology of events that occurred (e.g., Start Software). The listing includes the **Event** and **Date/Time**, the **User** at the time of the event, the **Method** in use or the **GLP Change** at the time of the event, and the **System** on which the event occurred.

> *Hint!* You can activate/deactivate this feature using the check box in the **GLP Options** dialog

Use the **Print** and **Print Preview** buttons to print the log to the printer currently selected or display an image of the printout on screen.

> *Rule* Do not use Landscape mode to print Hardware Maintenance Log information.

An example of a hardware maintenance log is shown below.

D-7000 HPLC System Manager
Hardware Maintenance Log

Event	Time	User	Method - GLP Change	System
Date: 09/07/95				
Start Software	08:42:05	geddry		Sys 1
Date: 09/06/95				
Start Software	07:22:50	geddry		Sys 1
Date: 08/30/95				
Start Software	01:01:07	geddry		Sys 1
Date: 08/29/95				
Start Software	10:52:25	geddry		Sys 1
Date: 08/28/95				
Key Lock	11:17:25	geddry		Sys 1
Key Unlock	11:17:10	geddry		Sys 1
Key Lock	11:17:08	geddry		Sys 1
Key Unlock	11:17:08	geddry		Sys 1
Key Lock	11:17:02	geddry		Sys 1
Start Software	07:41:09	geddry		Sys 1
Manual Entry	10:58:03	geddry		
Date: 08/24/95				
Start Software	01:10:54	geddry		Sys 1
End Series	11:04:35	geddry		Sys 1
Start Series	11:03:04	geddry	Polyaromatic Hydrocarbons	Sys 1
Start Software	09:29:08	geddry		Sys 2
Start Software	09:29:08	geddry		Sys 1
Start Software	09:28:24	geddry		Sys 1
Date: 08/23/95				
Start Software	10:37:20	geddry		Sys 1
Date: 08/21/95				
Start Software	11:33:00	geddry		
Date: 08/17/95				
Start Software	10:29:27	geddry		
Start Software	10:29:26	geddry		
Start Software	10:29:26	geddry		
Start Software	10:29:25	geddry		
Start Software	10:26:59	geddry		
Start Software	10:24:33	geddry		
Date: 08/16/95				
Start Software	07:20:51	geddry		
Date: 08/15/95				
Start Software	03:17:18	geddry		
Start Software	03:14:58	geddry		
Start Software	01:15:30	geddry		
Date: 08/14/95				
Start Software	11:17:09	geddry		
Date: 08/10/95				
Start Software	08:15:14	geddry		
GLP Change	08:08:55	geddry	Lock Keypads Disabled	
GLP Change	08:08:27	geddry	Edit Injection Table Enabled	
GLP Change	08:07:51	geddry	Edit Log Books Enabled	
GLP Change	08:07:51	geddry	Edit Injection Table Disabled	
GLP Change	08:07:15	geddry	Edit Log Books Disabled	
GLP Change	08:07:15	geddry	Lock Keypads Enabled	
Start Software	07:37:25	geddry		Sys 1
Date: 08/09/95				
Start Software	07:55:11	geddry		Sys 1
Start Software	07:24:12	geddry		Sys 1
Date: 08/08/95				

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To view a further detail of an event:

1. Select (highlight) an event line starting with words **Start Software** or **Start Series** in the **Event** column. The **View Detail** button becomes active.

2. When you click on the **View Detail** button, the **Hardware Log Detail Listing** dialog appears.

Hardware Log Detail Listing	Start Series: Sys 1				
Module	**Model**	**Serial No.**	**Element**	**Value**	**Date**
Interface Module	D-7000	0000-000			
Autosampler	L-7250	0000-000	Injection Port Seal	289 Injs	since 08/17/95
Autosampler	L-7250	0000-000	Injection Valve	289 Injs	since 08/17/95
Autosampler	L-7250	0000-000	Syringe 1 Seal	289 Injs	since 08/17/95
Autosampler	L-7250	0000-000	Syringe 1 Valve Seal	289 Injs	since 08/17/95
Pump A	L-7100	0000-000	Pump Total Flow	9 l	since 08/17/95
Pump B	L-7100	0000-000	Pump Total Flow	6 l	since 08/17/95
Detector ch 2	L-7400	0000-000	D2 Use	1994 Hrs	since 08/17/95
Detector ch 2	L-7400	0000-000	D2 Energy	256	
Detector ch 2	L-7400	0000-000	D2 WL Difference	+/- 0 nm	
Detector ch 1	L-7480	0000-000	Xe Use	6 Hrs	since 08/17/95
Detector ch 1	L-7480	0000-000	Xe Energy	335	
Detector ch 1	L-7480	0000-000	EX WL Difference		
Detector ch 1	L-7480	0000-000	EM WL Difference		

> [Print]   [Close]

The display area shows detailed lists in the **Module, Model, Serial No., Element, Value,** and **Date** columns. If, however, no information is available for the event, then no details are displayed and the display area remains blank.

3. Click **Print** to output the log to the printer currently selected in Windows 2000.

4. Click **Close** to return to the Hardware Maintenance Log dialog.

To add a comment to the log:

1. Click the **Add Comment** button. The **Add Comment to Hardware Log** dialog appears.
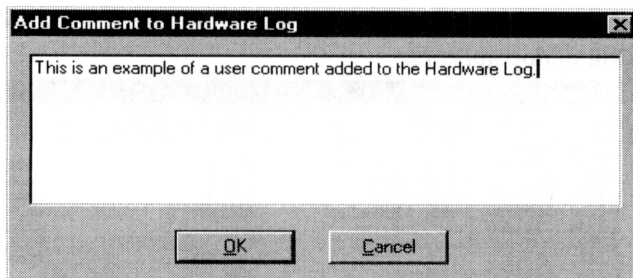
2. Type in an applicable comment and choose **OK**. The comment appears in the top in the Hardware Maintenance Log dialog with a **Manual Entry** event.

    Note: If the **Filter** is on, the new entry may not be visible. Click **Filter** to deactivate the filtering function to view the entire list.

To view a comment:

1. Select (highlight) an event line starting with words **Manual Entry** in the **Event** column. The **View Comment** button becomes active.

2. When you click on the **View Comment** button, the **Hardware Log Comment** dialog appears showing the input comment.

3. Click **Close** to return to the Hardware Maintenance Log dialog.

To activate a filter to narrow the log entries to display:

1. Click **Filter** to open the **Data Filter** dialog.
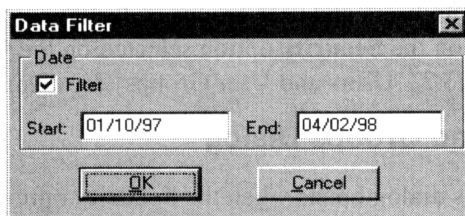
2. If the **Filter** check box is not on, click it to activate the filtering.

3. Enter **Start** and **End** dates to limit what data appears in the Hardware Maintenance Log box.

4. Click **OK**.

To reset the filtering and show all the logs:

1. Click **Filter** to open the **Data Filter** dialog.
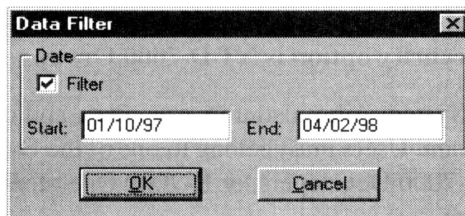
2. Deselect the Filter check box. The **Start** and **End** boxes become grayed out.

3. Click **OK**.

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2.5.11 Users and Groups (Users Menu)

When you select **Users and Groups** from the **Users** menu, or click on ▣ , a dialog where you can set up users and user groups is displayed. The dialog to appear varies, depending on the **Security** option selected on the **GLP Options** dialog. Refer to Section 2.3.2, "Users and User Groups" for details.

Local Users and Groups Dialog

> **Note:** This dialog opens when the **Security** option on the **GLP Options** dialog is either **Windows File Security** or **NT D-7000 Groups**.
>
> This section describes how to create a user and user group. For procedures for other operations, click the Help icon on the dialog and refer to Windows 2000 Help for Local Users and Groups.

When the GLP Security option is Windows File Security

In this dialog, the System Administrators can create and control users' privilege for the Windows 2000 system. There is no specific user setup for the HSM or HSM Administration program.

When the GLP Security option is NT D-7000 Groups

In this dialog, the System Administrators can create and control users' privilege to use the HSM program. Users must belong to one of the D-7000 user groups (D-7000 Administrators, D-7000 Developers, or D-7000 Operators) to open and use the D-7000 HSM program.

Set up the D-7000 user groups, referring to Section 3.4.5, "When GLP Security is NT D-7000 Groups" of *D-7000 HPLC System Manager Getting Started Manual*.

- **D-7000 Administrators**
  D-7000 Administrators have access to all aspects of both the HSM program and the HSM Administration program. They also have Developer privileges for any application group to which they are given membership. The Windows 2000 Administrator account is a member of the D-7000 Administrator account by default and anyone belong to the D-7000 Administrators group is listed in the Windows 2000 Administrator group.

- **D-7000 Developers**
  Those listed as D-7000 Developers have access to all files for any application to which they have membership. They can create, edit, and delete methods, sample tables, data files, and reports from any of these applications.
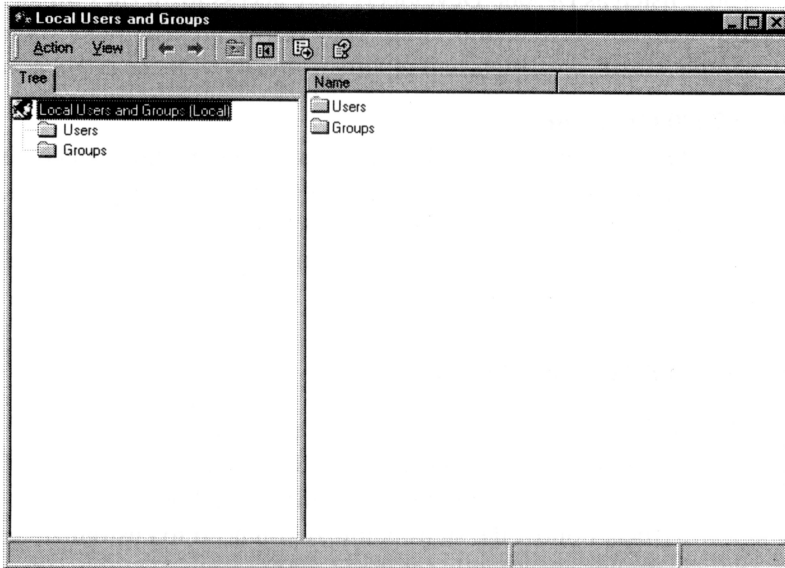
- **D-7000 Operators**
  D-7000 Operators have read-only access to the methods and data files in any HSM application to which they have membership. They can edit sample tables and create new data files and reports using Data Acquisition functions. They can also reprocess data to create new reports. They cannot, however, modify any existing data files.

To set up a new user group:

Note: Windows will have the default user groups (e.g., Administrators, Power Users, Guests). In general, the default grouping will be sufficient to manage HSM applications and files. Follow the steps below if you need to customize user groups specifically for the D-7000 users.

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1. Click on ![icon]. The **Local Users and Groups** window opens.

2. Highlight **Groups** and from the menu bar, select **Action**.

3. Select **New Group**. The **New Group** dialog opens.
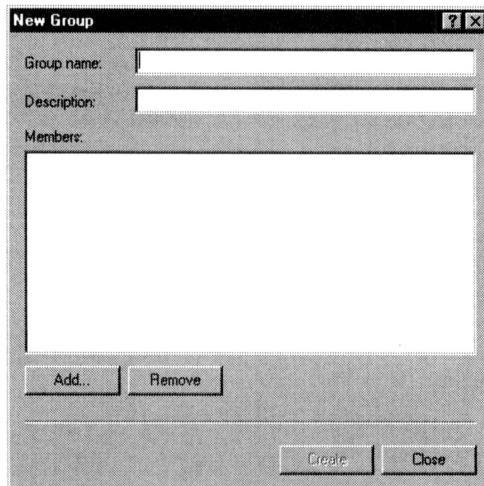
4. In the **Group Name** box, type in your desired group name.

5. In the **Description** box, type in a comment to describe the function of the new user group.

6. To add members to the group, click **Add**. The **Select Users or Groups** dialog opens.
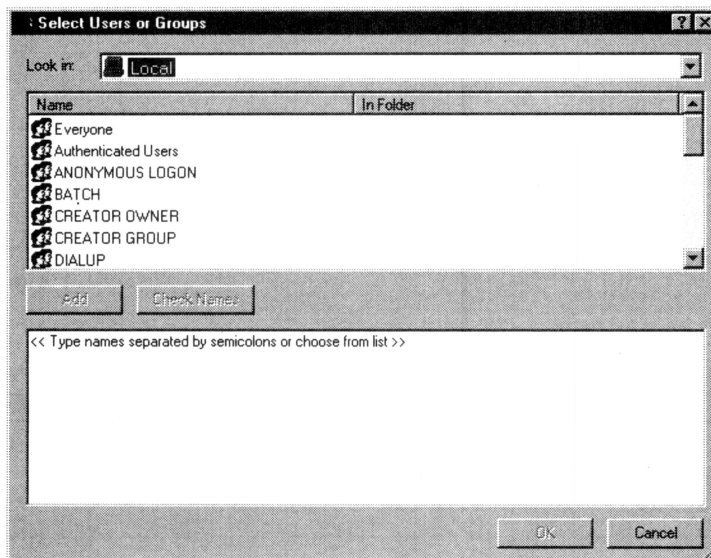
7. Select (Highlight) the desired users or user groups from list and click **OK**. Focus returns to the **New Group** dialog.

8. Click **Create** button.

9. When finished entering group names, Click **Close**. Focus returns to **Local Users and Groups** window and group names are listed in the **Groups** folder.

10. Click the **X** button at the top right corner of the dialog to close the **Local Users and Groups** window.
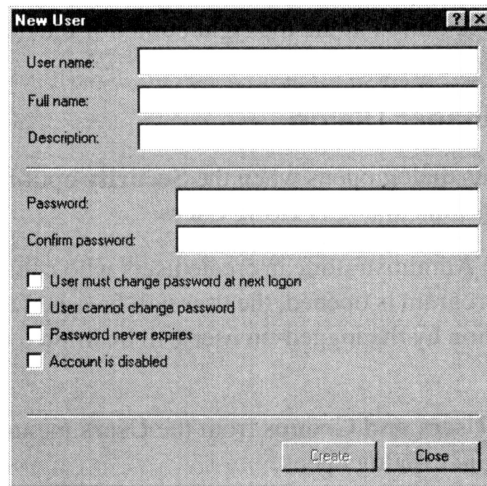
To set up a new user:

1.   Click on [⛬]. The **Local Users and Groups** window opens.
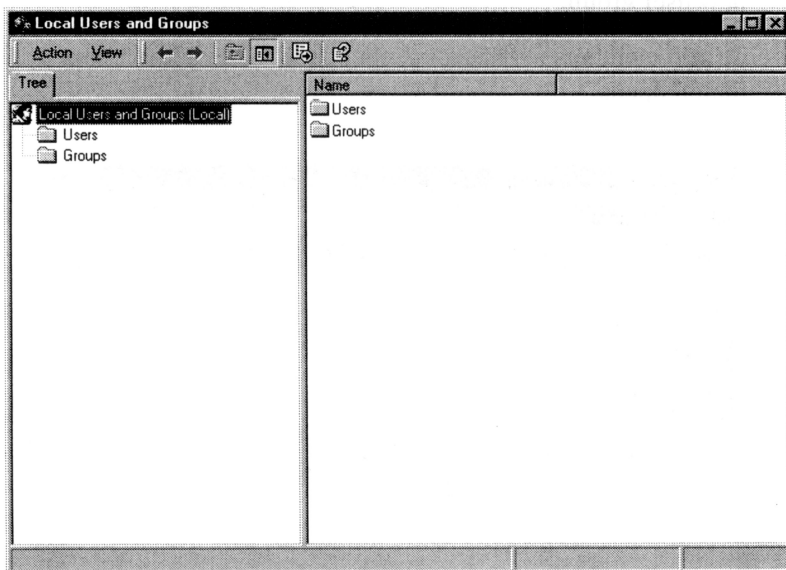
2.   Highlight **Users** and from the menu bar, select **Action**.

3. Select **New User**. The **New User** dialog opens.

4. Type the desired user name in the **User name** text box. Type the user's full name in the **Full name** text box and a description in the **Description** box.

   Note: Do not use a period (.) in the Username text box as it causes a problem. You can use a period (.), however, in the Full Name text box.

5. Type the password into the **Password** text box, and retype the password in the **Confirm Password** text box.

6. Add check marks, as applicable, to the following:

   - User must change name at next logon

   - User cannot change password

   - Password never expires

   - Confirm password

7. Click **Create** button.

8.   Click **Close** and focus returns to **Local Users and Groups** window. The
      new memberships are shown listed in the **Users** folder.

9.   Click the **X** button at the top right corner of the dialog to close the **Local
      Users and Groups** window.

HSM User Manager Dialog

Note: This dialog opens when the **Security** option on the **GLP
      Options** dialog is **HSM Users**.

A Windows 2000 Administrator can create users who can use the HSM program.
When the HSM program is opened, the user will be asked to enter the user name and
password. Operation by the logged-on user will be limited according to the privilege
granted.

When you select **Users and Groups** from the **Users** menu, or click on [🗓], the
HSM User Manager dialog opens.
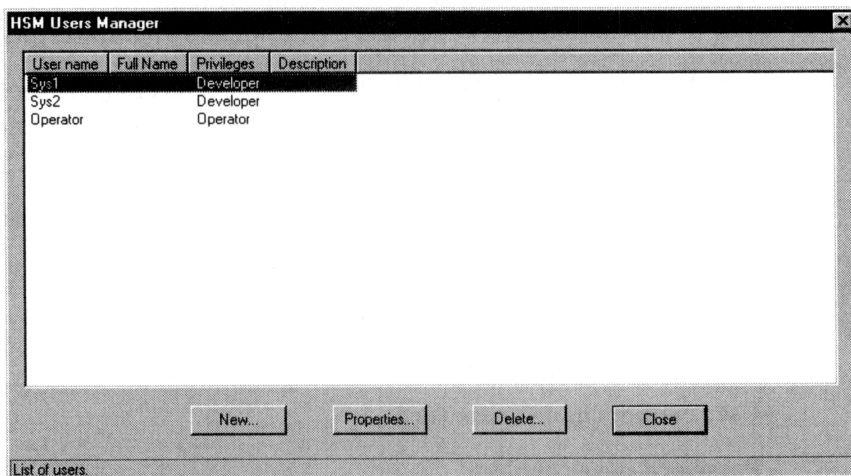
To create a new user:

1. Click **New**. The **New User** dialog appears.

2. Input the fields following the guidance displayed at the bottom of the dialog (e.g., for User Name, "Logon user name: (1 - 20) characters).

3. Click **OK**. The new user name appears listed in the **HSM User Manager** dialog.

To view or edit the user profile:

1. Select the user entry whose properties you want to view or edit.

2. Click **Properties**. The **User Properties** dialog appears.

3. The **User Name** field is not grayed out (not editable). Edit other fields following the guidance displayed at the bottom of the dialog (e.g., for User Name, "Logon user name: (1 - 20) characters).

4. Click **OK**. The user entry is updated in the **HSM User Manager** dialog.

To delete a user:

1. Select the user entry whose properties you want to delete.

2. When a confirmation message appears, click **Yes**.

2.5.12 Edit System Name (System Menu)

When you select **Edit System Name** under the **System** menu, or click ![icon], the **Edit System Name** dialog opens.
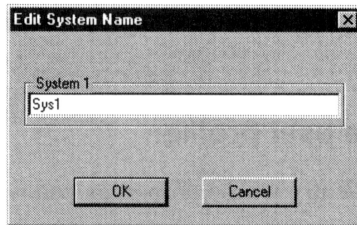
You can define the name for the currently active system in this dialog. The name will appear in reports and log files. In a multi-system version, first select the system using 1 2 3 4 and select this function. You can use up to 10 characters for the name.

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October 1, 2001
To Customers:

Notification of the Foundation of a New Company, Hitachi High-Technologies Corporation

Your favor of our Hitachi products is highly appreciated.

As of October 1, 2001, a new company, called Hitachi High-Technologies Corporation, has been founded by integrating the former Instruments Group (together with the transfer of marketing business on clinical testing systems from Hitachi Medical Corporation) and Semiconductor Manufacturing Equipment Group (together with its affiliated marketing operations) of Hitachi, Ltd. into the former Nissei Sangyo Co., Ltd., a trading company of Hitachi group.

Armed with an integrated management of development through manufacturing, marketing, and services, we are committed to delivering customers satisfaction to a greater extent than before to be able to deserve your continued favor.

You are noticed that all products of the former two Groups of Hitachi, Ltd. are transferred to the new company, but the service organizations before the business integration remain to continue their functions.

In such a rare circumstance as this, you are kindly requested to read "Hitachi High-Technologies Corporation" when you see the descriptions of "Hitachi, Ltd." in your documents for Hitachi products.

Hitachi High-Technologies Corporation
Tokyo Japan